County Borough of Rochdale.

Annual Report

OF THE

Medical Officer of Health, . . .

FOR THE

Year ended December 31st, 1908.

J. HENRY, M.D., &c.,
Late Medical Officer of Health.

Rochdale:
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1909.

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Extract from the Order of the Local Government Board, 23rd March, 1891.

RELATING TO THE DUTIES OF MEDICAL OFFICERS OF HEALTH.

(14.) He shall also make an Annual Report to the Sanitary Authority up to the end of December in each year, comprising a summary of the action taken, or which he has advised the Sanitary Authority to take, during the year for preventing the spread of disease, and an account of the sanitary state of his district generally at the end of the year. The Report shall also contain an account of the enquiries which he has made as to the conditions injurious to health existing in the district, and of the proceedings in which he has taken part or advised under any statute, so far as such proceedings relate to those conditions; and also an account of the supervision exercised by him, or on his advice, for sanitary purposes over places and houses that the Sanitary Authority have power to regulate with the nature and result of any proceedings, which may have been so required and taken in respect of the same during the year. The Report shall also record the action taken by him, or on his advice, during the year, in regard to offensive trades, to dairies, cow-sheds, and milk shops, and to factories and workshops. The Report shall also contain tabular statements (on forms to be supplied by us, or to the like effect) of the sickness and mortality within the district, classified according to diseases, ages, and localities.

Provided that, if the Medical Officer of Health shall cease to hold office before the 31st day of December, in any year, he shall make the like report for so much of the year as shall have expired when he ceases to hold office.

Summary of Statistics.

Area of Borough in acres			6,446
No. of inhabitants per acre			13·78
No. of inhabited houses at 1901 Census			20,191
No. of uninhabited houses at 1901 Census—			
In occupation	823		1,900
Not in occupation	1,077		
Total number of tenements at 1901 Census			20,233
No. of inhabitants per house at 1901 Census			4·1
Estimated population at the middle of 1907—			
Males	41,568		88,820
Females	47,252		
No. of births registered—			
Males	1,116		2,202
Females	1,086		
Annual birth-rate per 1,000 of population—			
Males	26·8	persons	24·8
Females	23·0		
No. of Deaths—			
Males	807		1,632
Females	825		
Annual death-rate per 1,000 of population			
Males	19·4	persons	18·4
Females	17·5		
Excess of registered births over deaths			570
Zymotic Diseases—Death-rate per 1,000 of estimated population			2·40
Respiratory Diseases— ,, ,,			2·97
Phthisis ,, ,,			1·37
Deaths under 1 year of age to every 1,000 births registered			168
Estimated increase of population during the year			820

COUNTY BOROUGH OF ROCHDALE.

HEALTH COMMITTEE.

ANNUAL REPORT

OF THE

Medical Officer of Health,

For the Year 1908.

MR. CHAIRMAN AND GENTLEMEN,

I have great pleasure in presenting to you my Thirtieth and last Annual Report on the Health and Mortality of the Borough, with a Statement of the Sanitary Work accomplished during the year ending December 31st, 1908. I have already laid before you, in my recent Report on the Improvements in the Health and Sanitary condition of the Borough, some suggestions for your consideration, which, if carried out, will, I think, improve the sanitary condition and, consequently, the health of the inhabitants.

Estimate of Population.

The population, as estimated by the Registrar-General, to the middle of 1908 is 88,820; males 41,568, females 47,252. The population per inhabited house, as obtained from the Census Returns, 1901, was 4·11, as compared with 4·30 in the previous decade. 273 houses were built during the year, and 19 ordered to be closed by your Committee as unfit for human habitation. I purpose making my calculations on the Registrar-General's estimate, although I am of opinion he has under-estimated our population.

Births.

The Births registered during the year numbered 2,202; males 1,116, females 1,086; showing an increase of 105 on those of the preceding year, and being equal to an annual birth-rate of 24·8 per 1,000 of the population, or 1.0 more than the preceding year. The same rate last year was 23·8, and the preceding year 23·6. The birth-rate for the whole of England and Wales was 26·5 per 1,000, which was 0·2 per 1,000 above the rate in 1907. Compared with the average in the ten years, 1898-1907, the birth-rate in 1908 showed a decrease of 1·6 per 1,000. The birth-rate for the seventy-six great towns was 27·0, and for the one hundred and forty-two next largest towns, 26·0. Of the different wards of the Borough, Wardleworth West had the highest birth-rate, it being 30·6 per 1,000; the lowest was in Castleton North, 19·2. One hundred, or 4·5 per cent. of the total births were illegitimate; males 50, females 50, showing a decrease of 9 on those of the preceding year.

Deaths.

The total number of Deaths amongst residents was 1,632; males 807, females 825; equal to an annual death-rate of 18·4 per 1,000. This is the corrected death-rate, and includes all Rochdale residents who have been removed for treatment or infirmity to such Public Institutions as the Workhouse, Royal Infirmary (Manchester), &c., outside the Borough. It excludes all residents of other districts dying in Public Institutions within the Borough. Excluding the deaths in the Workhouse the death-rate would then become 16·6 per 1,000, and if I include the Workhouse population of Rochdale people, and the deaths amongst Rochdale people resident in the Workhouse, our death-rate would then be 18·3. The same rate for similar sized towns was 14·9. The annual death-rate amongst males was 19·41, and females 17·46 per 1,000 estimated to be living of each sex. Last year the corresponding rates were 17·73 and 16·29. In equal numbers living the deaths were as 111 males to 100 females. The corrected death-rate was highest in Wardleworth West Ward, 23.9 ; Wardleworth South Ward being next with 21·6. The lowest was in Castleton Moor Ward, 13·9 per 1,000.

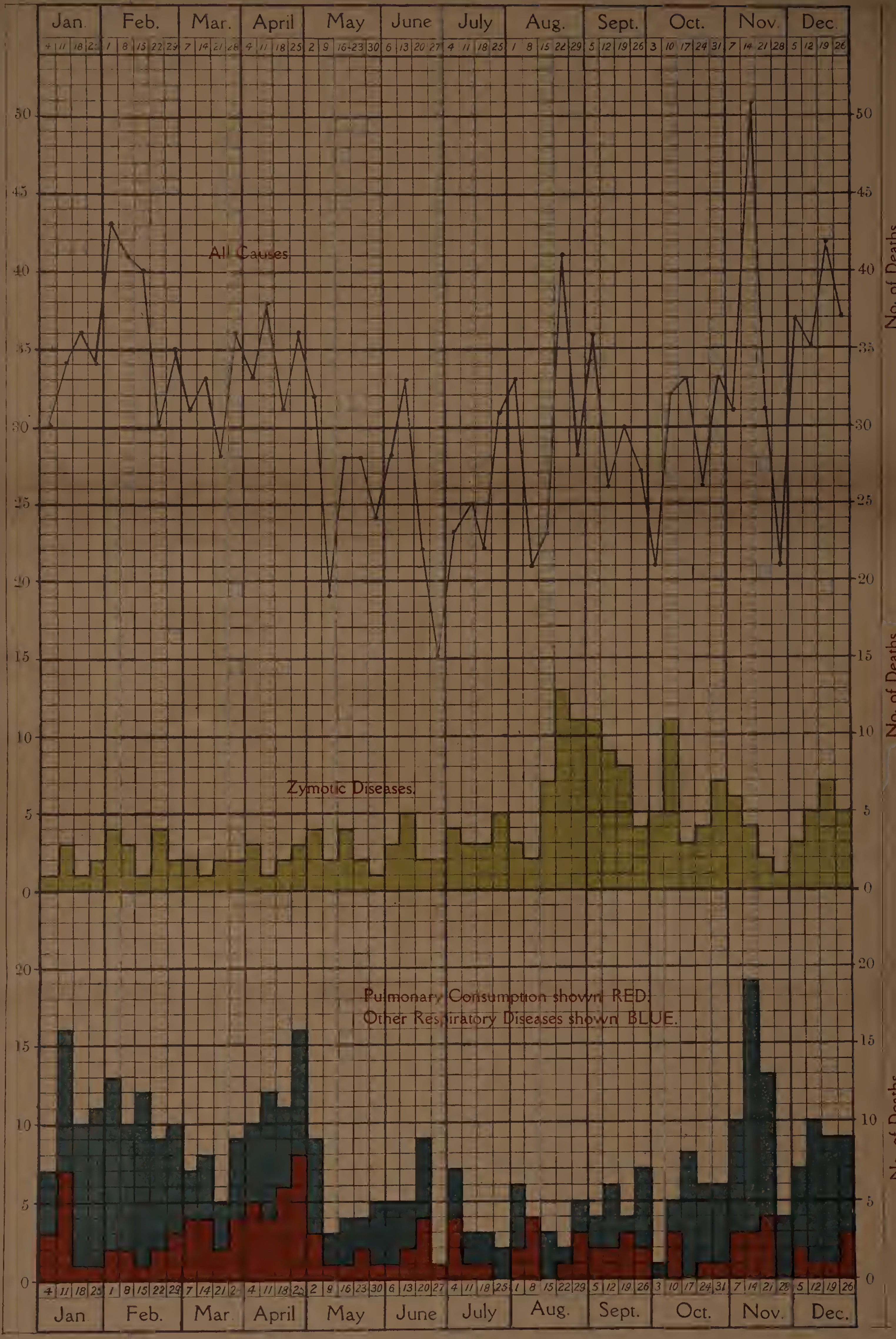
The following table gives the annual death-rate per 1,000 of the population of the different districts, as taken from the Registrar-General's Report (except Rochdale) :—

England and Wales......	Population	35¼	millions	14·7
Rural Districts	,,	14	,,	14·7
Seventy-six great towns	,,	16¼	,,	14·9
One-hundred-and-forty-two smaller towns ...	,,	5	,,	14·0
Lancashire	,,	...	...	20·1
ROCHDALE				18·4

Infantile Mortality. The number of deaths of infants under one year of age was 371, or 23 per cent. of the total deaths, and 6·1 more than last year. The infantile mortality was 168 per 1,000 of the births registered during the same time. This high infantile mortality was caused by Zymotic Diseases (chiefly Measles and Diarrhœa), Developmental, Lung, and Tubercular Diseases. In England and Wales this rate was 121, in the seventy-six great towns 128, in the one-hundred-and-forty-two smaller towns 124, in rural districts 110, and in Lancashire 13·2. By referring to Chart I. you will see at a glance the total weekly deaths of infants under one year of age, and the number of these caused by respiratory affections, marked red

BOROUGH OF ROCHDALE.

Deaths Chart, 1908.



CLASSIFIED LIST OF INFANT DEATHS UNDER 1 YEAR, SHOWING EFFECT OF FEEDING, 1908.

Class.	No. of Deaths.		Total.	Cause of Death.	Method of Feeding.						Mother's Work.			Mother Dead.	Sanitary condition of house.			Illegitimate.	Insured.	Age at Death.				Total under 1 month	Age at Death.											Total.
	Male.	Female.			Breast.	Bottle.	Patent Foods.	Breast & Bottle	Other Foods.	None.	Home.	Mill.	Char-ing		Good.	Bad.	Back to back.			Under 1 week.	Over 1 and under 2 weeks.	Over 2 and under 3 weeks	Over 3 and under 4 weeks.		Over 1 month under 2 months.	Over 2 months under 3 months.	Over 3 months under 4 months.	Over 4 months under 5 months.	Over 5 months under 6 months.	Over 6 months under 7 months.	Over 7 months under 8 months.	Over 8 months under 9 months.	Over 9 months under 10 months.	Over 10 months under 11 months.	Over 11 months under 12 months.	
1	60	37	97	Zymotic Diseases	4	32	18	15	28	...	38	46	11	2	48	49	46	10	78	...	...	...	3	3	8	12	9	8	12	7	11	9	5	7	6	97
2	41	27	68	Respiratory Diseases	6	18	15	11	18	...	36	22	8	2	33	35	31	3	55	...	...	1	1	2	5	6	7	2	6	8	7	4	5	10	6	68
3	38	36	74	{ Developmental Diseases }	9	34	5	13	2	11	50	17	4	3	45	29	26	1	20	17	7	8	3	35	13	4	6	5	4	2	2	...	1	1	1	74
4	6	14	20	Convulsive Diseases	6	6	2	1	3	2	11	5	2	2	12	8	7	1	8	3	1	1	1	6	4	3	...	2	2	1	...	1	...	...	1	20
5	10	3	13	Tubercular Diseases	3	6	3	1	...	...	5	5	3	...	5	8	6	1	12	...	...	...	...	...	...	1	4	4	...	...	...	3	1	...	...	13
6	25	28	53	Premature Births	5	16	1	1	...	30	25	23	4	1	30	23	21	6	3	34	5	6	...	45	2	3	2	...	1	...	..	...	...	...	...	53
7	14	11	25	Other Causes	8	5	4	4	3	1	11	11	3	...	10	15	15	3	14	2	3	...	2	7	3	1	2	1	2	4	2	1	1	1	...	25
8	15	6	21	Inquests or Inquiries	4	2	2	2	4	7	7	10	4	...	11	10	10	3	6	8	...	...	2	10	4	1	2	...	...	...	1	...	1	...	2	21
	209	162	371		45	119	50	48	58	51	183	139	39	10	194	177	162	28	196	64	16	16	12	103	39	31	32	22	27	22	23	18	14	19	16	371

Class 1 includes 10 Whooping Cough, 21 Measles, 40 Diarrhœa, 26 Gastro and Epidemic Enteritis.
,, 2 ,, 32 Broncho Pneumonia, 29 Bronchitis, 3 Pneumonia, 2 Inflamation of Lungs, 1 Congestion of Lungs 1 Croup.
,, 3 ,, 24 Marasmus, 19 Debility, 8 Dentition, 6 Inanition, 4 Injury at Birth, 2 Congenital Defects, 2 Malnutrition, 2 Spina Bifida, 2 Atelectasis, 2 Asthenia, 1 Atrophy, 1 Icterus, 1 Uræmia.
,, 4 ,, 15 Convulsions, 5 Meningitis.
,, 5 ,, 2 Tuberculosis, 5 Tubercular Peritonitis, 4 Tubercular Meningitis, 2 Hydrocephalus.
,, 6 ,, 53 Premature Births.
,, 7 ,, 6 Syphilis, 5 Enteritis, 1 General Catarrh, 1 Hœmophilia, 3 Intus-susception. 2 Cerebral Hœmorrhage, 1 Gastric Catarrh, 1 Otitis Media, 1 Acute Gastritis, 1 Jaundice, 1 Enlargement of Liver, 1 Nephritis, 1 Larynx Stridulus.
,, 8 ,, 21 Inquests or Inquiries not certified by a registered Medical practitioner.

Infant Feeding.

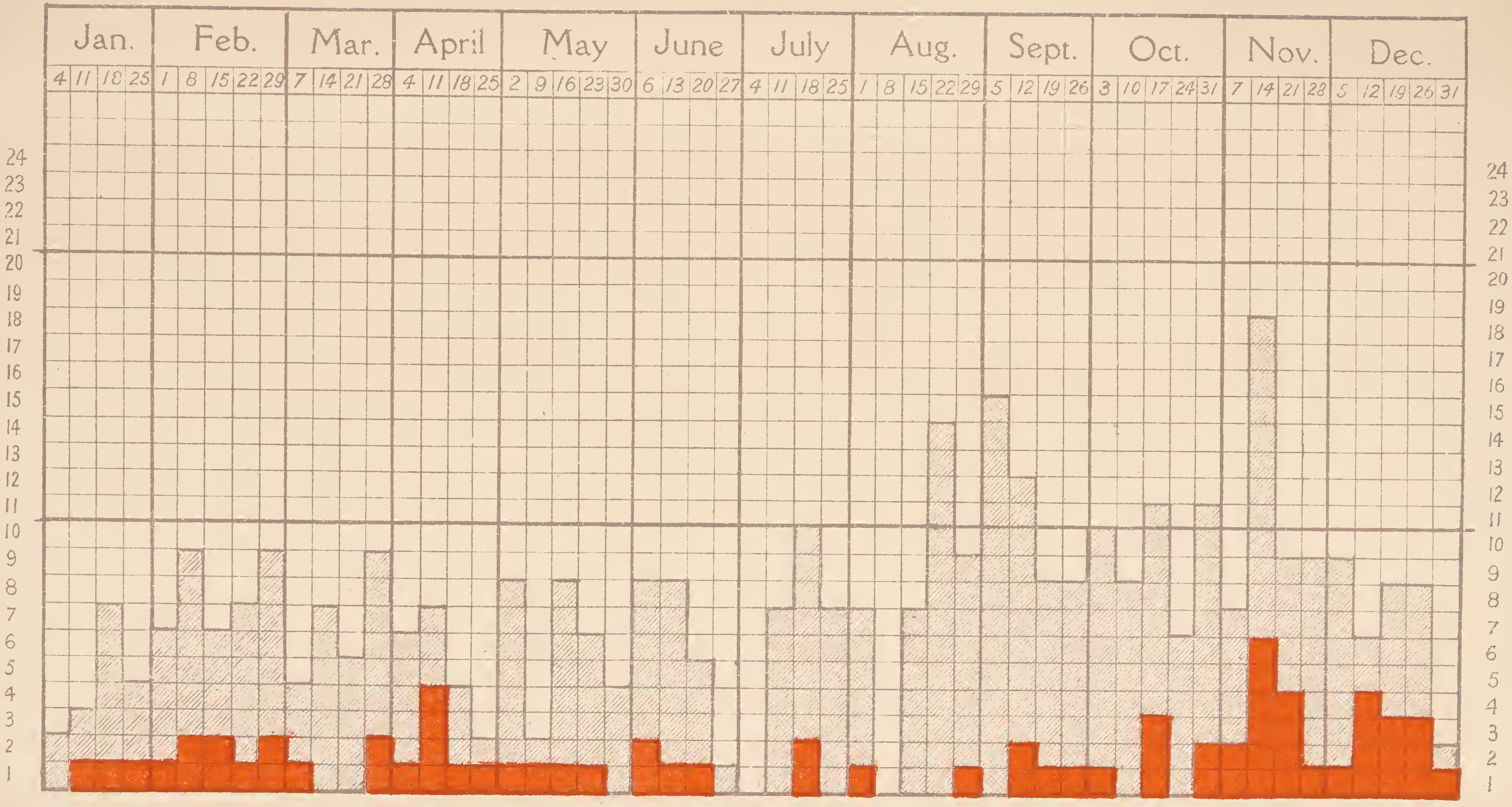
371 deaths of children under one year of age, were investigated by the Lady Inspectors. The result of the enquiries made show that only 45 or 12·1 per cent. were breast fed, and 51 did not live long enough to take any food, 48 had both breast and bottle, leaving 227 or 61·2 per cent. that received no breast food. Of the 227 not breast fed, 119 were bottle-fed (milk and water), 50 fed on Patent Foods, and 58 on "pobbies," bits from the table, etc. Of the deaths amongst children not breast-fed, 52 were due to developmental, and 59 to diarrhœal diseases. 44 of the latter used long tube bottles for feeding purposes. By referring to the adjoining table you will see that breast-fed children, numbering 45 out of 371 deaths, are much less liable to disease. Amongst the—

Zymotic Diseases—	4	were breast-fed	out of	97	deaths
Lung ,,	— 6	,,	,,	68	,,
Developmental,,	— 9	,,	,,	74	,,
Convulsive ,,	— 6	,,	,,	20	,,
Tubercular ,,	— 3	,,	,,	13	,,
Premature Births—	5	,,	,,	53	,,
Other Causes	—12	,,	,,	46	,,

The higher death-rate amongst non-breast fed infants is, no doubt, accounted for by the irritation to the mouth and alimentary canal caused by the unsuitable food, thereby preparing it for the more ready reception of these diseases. The effects of the mother's occupation on the health of their children may be seen by examining the adjoining table. 139 deaths occurred among infants whose mothers worked in the mill, and 222 among those whose mothers followed home-work. This, at first sight, would appear more favourable to mill workers, which theory, I think, would be upset if we had the exact number of mothers who worked in the mill and those who did not. The sanitary condition of the houses was good in 194

CHART I.

Weekly Deaths of Infants, 1908.



▨ Shaded parts show total deaths per week.

🟥 Red parts show deaths from Respiratory Diseases.

cases, and bad in 177. The infantile mortality, as shown by the adjoining table, again presents an extremely bad case against back-to-back houses, namely, of 97 deaths from preventable diseases 46 occurred in this type of house ; of 13 from Tubercular, 6 ; of 68 from Respiratory, 31 ; of 74 from Developmental, 26 ; and of 46 deaths from Other Causes, 25 occurred in back-to-back houses. 162 deaths, or 43·7 per cent. of the infant deaths occurred in back-to-back houses, leaving 209 or 56·3 per cent. in through houses. I find that there were during the year under notice 162 deaths amongst infants to 752 births in back-to-back houses, which equals a percentage of 21·5; whilst there were 209 deaths to 1,533 in through houses showing a percentage of 13·6. Of the deaths among infants, I find that 28, or 7·5 per cent. were illegitimate births, and that the illegitimate infantile mortality was 280 per 1,000 illegitimate births, whilst the corresponding figure for legitimate births was 163 per 1,000. This is a very high death-rate when you consider that the total number of illegitimate births was 100. 196 or 52·8 per cent. of the total deaths amongst infants were insured. Last year the same figure was 112 out of 253 deaths. By referring to the adjoining table you will find that one-sixth died during the first week, and more died during the first week than during the subsequent three weeks. Last year one-fifth of the infants died during the first week.

On my recommendation your Council adopted The Notification of Births Act, 1907, which came into operation in Rochdale at the beginning of May, 1908. My main reason for so strongly recommending its adoption was :—that 25 per cent. of the infants registered were dead when the Lady Inspector paid her first visit ; that these deaths occurred chiefly in the very poor and dirty houses ; that one-sixth of the deaths proved fatal during the first week ; and rarely a medical man in attendance to give advice ; therefore, if the Lady Inspector's visit was to be of any use the early notification of such cases must be compulsory. The requirements of this Act appear to be much better known than was the case for some months after the Act came into operation. With very few exceptions the Act is now complied with. Almost every birth notified is visited by the Lady Inspector to obtain information as to the method of feeding, mother's occupation, etc., and note the general sanitary condition of the house, and in cases where no medical man is in attendance, give verbal and written instructions as to the feeding and general care of infants and young children. The enquiries made during the year into 2,285 cases showed, at the time of visiting, that in 1,357 cases they were fed by the breast; in 332 by breast and bottle (milk and water); in 500 by bottle (426 milk and water, and 74 Patent Foods); and in 47 by both breast and "pobbies." Forty-nine had died before any food could be taken. Of the 2,285 births mentioned above 752, or 32·9 per cent. occurred in back-to-back houses. Written and verbal instructions as to the feeding and general care of infants and young children were given, where necessary, in each case visited. In almost every case the mother was quite willing to receive instruction and advice as to the feeding and general care of her baby.

Mortality at different ages.

535 deaths of children under five years of age were recorded during the year under notice, or 123 more than the preceding year, and 114 more than the average for the ten preceding years. The percentage of deaths at this age to the total deaths was 33, or 5 per cent. more than the average for the preceding decade. Of the 1,632 deaths occurring during the year, 398 were at or over the age of sixty-five, and equal to 24 per cent. of the total deaths.

Death-rates, &c., in surrounding towns.

The following table shows the rates in the surrounding towns under the several headings as below, for the purpose of comparison. The towns chosen are about the same size of Rochdale, and like it are employed chiefly in manufacturing industries :—

	Birth-rate per 1,000.	Death-rate per 1,000 (corrected).	Zymotic Death-rate per 1,000.	Rate of Infantile Mortality under 1 year per 1,000 Births.
Accrington ...	22·0 ...	14·4 ...	1·82 ...	137
Ashton-u-Lyne	26·7 ...	19·0 ...	1·70 ...	183
Bury ...	23·3 ...	15·9 ...	1·15 ...	129
Blackburn ...	25·2 ...	15·9 ...	1·70 ...	149
Bolton ...	24·6 ...	15·5 ...	1·69 ...	148
Burnley ...	28·2 ...	17·9 ...	3·06 ...	201
Darwen ...	21·2 ...	13·0 ...	0·76 ...	120
Huddersfield	24·4 ...	17·1 ...	1·65 ...	112
Halifax ...	19·7 ...	14·5 ...	1·00 ...	101
Oldham ...	28·4 ...	20·1 ...	2·60 ...	159
St. Helens ...	35·3 ...	16·0 ...	1·32 ...	122
Stockport ...	27·9 ...	20·0 ...	3·11 ...	170
Wigan ...	31·9 ...	17·0 ...	1·85 ...	154
Rochdale ...	**24·8** ...	**18·4** ...	**2·40** ...	**168**

You will see by referring to the foregoing table that our Death-rate, Zymotic Death-rate, and Infant Mortality does not compare so favourably with the similar-sized surrounding towns.

Zymotic diseases

The seven principal Zymotic diseases caused 213 deaths, or 121 more than the preceding year, and 96 more than the average for the decade 1898-1907. The death-rate from these causes during the year was 2·40 per 1,000 of the population ; the same rate for England and Wales was 1·29 ; the seventy-six great towns 1·59 ; the one-hundred-and-forty-two smaller towns 1·26, and Rural Districts, 0·99. Castleton East Ward had the highest death-rate, 4·27 ; Wardleworth South Ward came next with 3·33 ; and Castleton Moor the lowest rate from these causes, 1·24. Pamphlets giving simple directions for isolation, prevention, and disinfection at the termination of the illness were sent to all houses where infectious disease was known to have occurred.

Small-pox

No cases of Small-pox have been notified in the Borough during the year.

Measles

There were 66 deaths from Measles registered during the year. Twenty-one were under the age of one year, 43 over one and under five years, and two over five years of age. The disease was most prevalent during the latter half of the year and was distributed all over the Borough. The death-rate from this cause was 0·74 per 1,000 of the estimated population. The same rate for England and Wales was 0·22 ; for the seventy-six great towns 0·31 ; for the one-hundred-and-forty-two smaller towns 0·20, and for the rural districts 0·13 Notification of this disease not being compulsory, there have only been 80 cases ascertained, and these chiefly through the Education Committee, who have kindly furnished them from their weekly returns. There is no doubt that many more cases occurred which did not come to my knowledge. It was found necessary to temporarily close ten of the Elementary Schools (Infants' Department) on account of the prevalence of Measles in the borough.

Scarlet Fever

152 cases of Scarlet Fever were notified and out of this number only 7 proved fatal. Of these 2 each occurred in Castleton West, Castleton East and Wuerdle Wards, and 1 in Castleton South Ward. The death-rate from this cause was 0·08 per 1,000, or a case mortality of 4·6 per cent. The death-rate for England and Wales was 0·08 ; for the seventy-six great towns 0·10 ; for the one-hundred and-forty-two smaller towns 0·06 ; and in rural districts 0·06. 96 of the cases notified, or 63·2 per cent., were removed for treatment to Marland Hospital.

Whooping Cough

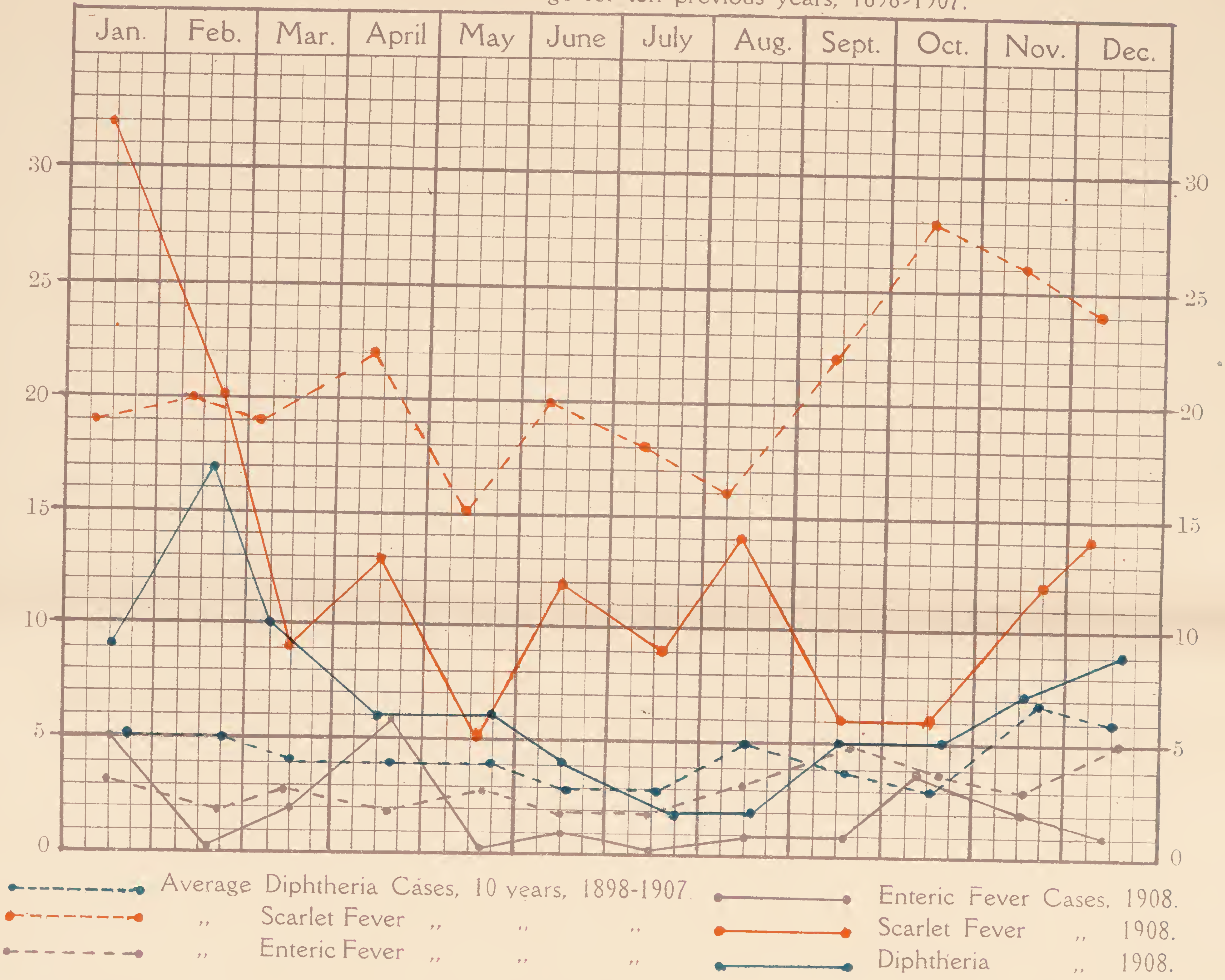
Whooping Cough has been credited with 25 deaths, or 2 less than the preceding year. The average number of deaths for the ten preceding years was 23. The deaths form 1·5 per cent. of the total deaths occurring in the year under notice. The death-rate from this cause was 0·28

CHART II.

BOROUGH OF ROCHDALE.

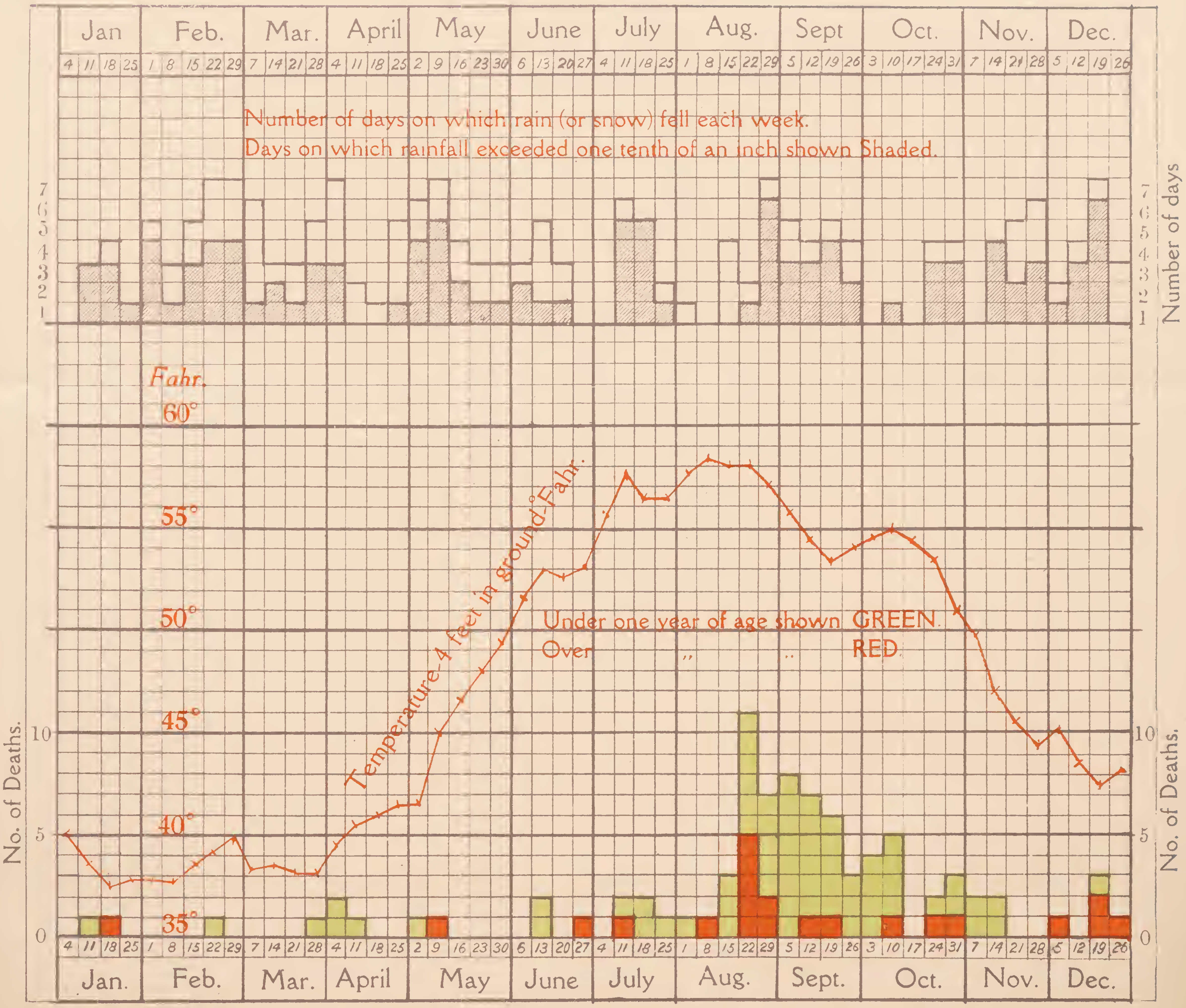
Notification of Infectious Diseases, 1908.

Comparison with average for ten previous years, 1898-1907.



DEATHS CHART.

Diarrhœal Diseases, 1908.



per 1,000. The same rate for England and Wales was 0·27; for seventy-six great towns 0·29; for one-hundred-and-forty-two smaller towns 0·25; and for rural districts 0·25.

Other Fevers

Under this head of Other Fevers are included Typhoid (or Enteric), Typhus, Simple and ill-defined forms of Continued Fever. Only 9 deaths are thus accounted for. Three occurred in Castleton West, and 1 each in six other Wards. The death-rate was 0·10 per 1,000 of the population. The same rate for England and Wales was 0·07; for the seventy-six great towns 0·08; for the one-hundred-and forty-two smaller towns 0·08; and for the rural districts 0·07. There were 23 notifications of Enteric Fever during the year, or 7 more than the preceding year. Eighteen of these cases, or 78·2 per cent., were removed for treatment to Marland Hospital. The rapid decline of this fever is best shown by giving you the average total deaths in periods of five years since the disease was recognised in Rochdale :—

1869-1873	34
1874-1878	35
1879-1883	18
1884-1888	11
1889-1893	9
1894-1898	9
1899-1903	6
1904-1908	6

During this time the population has increased by over 38,000.

Diarrhœal diseases

Diarrhœal Diseases caused 87 deaths or 77 more than the preceding year. 67 of these were due to Diarrhœa, and 20 to Epidemic or Zymotic Enteritis. The death-rate was 0·98 per 1,000, whilst the same rate for England and Wales was 0·50; for the seventy-six great towns 0·65; for the one-hundred-and-forty-two smaller towns 0·52; and for rural districts 0·33. They form 5·3 per cent. of the total deaths. This disease is non-notifiable; each house at which a death occurs is visited by the Lady Inspector, and the following enquiries made, viz.:—A general inspection of the premises; water and milk supply; place for storing milk; the mode of feeding; if any other illness in the neighbourhood, etc., and instructions given to prevent any further spread of the disease. By examining the adjoining Chart headed Diarrhœal Diseases, you will observe that diarrhœa became prevalent after the subsoil temperature exceeded 55 degrees, F., and after almost complete absence of rain for three weeks.

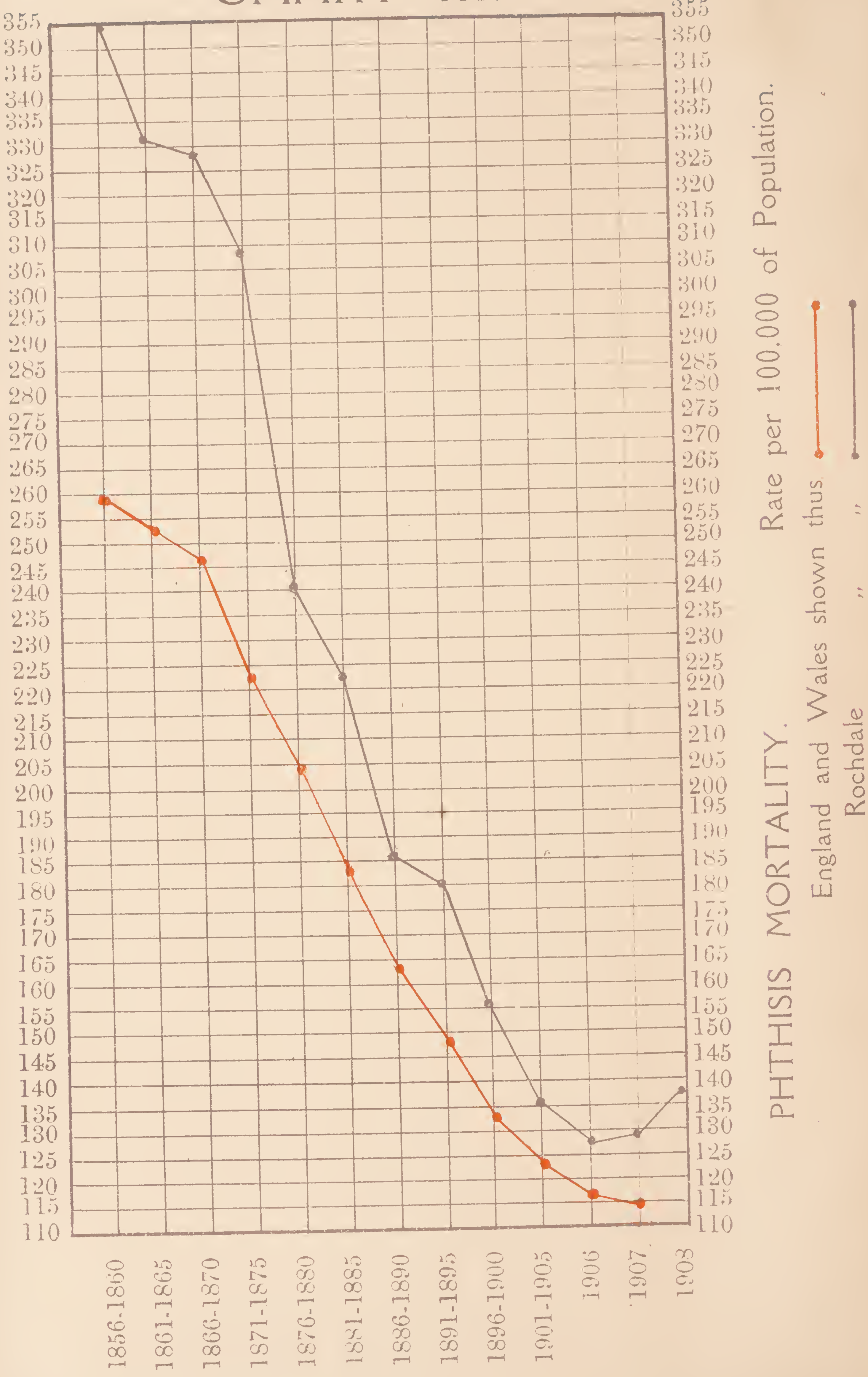
Diphtheria

82 cases of Diphtheria were notified, of which 19 proved fatal during the year, being a case mortality of 23·2 per cent. Last year the case mortality was 21·1 per cent., the year previous 24·7. Your Committee provide Antidiphtheria Serum to all medical men for use within the Borough free of charge, on their sending a full report of the case on a prescribed form. This Serum was used in 56 cases out of which only 9 or 16·1 per cent. proved fatal.

The following Table shows the effect of the use of Serum:—

	Day of Disease.	Cases.	Deaths.	Death-rate per cent.
Cases treated with Serum.	1st	9	1	11·1
	2nd	14	3	21·4
	3rd	14	...	...
	4th	10	2	20·0
	5th	2	2	100·0
	6th and over.	7	1	14·3
	Totals	56	9	16·1
Cases not treated with Serum.		26	10	38·5

CHART III.



PHTHISIS MORTALITY.

Rate per 100,000 of Population.

This Table, owing to only a part of the cases being dealt with, is only partially reliable, whilst it shows that the earlier the Serum is used the lower the death-rate, and the death-rate in cases where Serum is not used is much in excess of the cases in which it is used.

Puerperal Fever

Five cases of Puerperal Fever were notified, 1 of which died. Last year the corresponding figures were 10 cases and 6 deaths. Each case was investigated, and the house, where necessary, was visited, to ascertain any possible sanitary defects, and, on the termination of the case, the bedding, room occupied, etc., were all disinfected. In cases where midwives were in attendance, the clothing, midwife's bag and appliances, were all thoroughly disinfected, and the midwife instructed how to disinfect herself.

Influenza

Thirty-two deaths were due directly to Influenza, as compared with 18 in the preceding year, and 21 in the year preceding that.

Erysipelas

Twenty-five cases of Erysipelas were notified, one of which proved fatal.

Phthisis

Owing to the notification of this disease not being compulsory, but voluntary, there have only been 13 cases notified during the past year, of which 10 died. The total deaths from this cause numbered 122 ; males 69, females 53, equal to an annual death-rate of 1·37 per 1,000. The same rate amongst males was 1·66, and females 1·12 per 1,000 estimated to be living of each sex. The highest death-rate occurred in Wardleworth West Ward, 2·78, and the lowest in Castleton Moor, 0·74. One hundred and eight houses where death occurred have been visited and the tenants urged to have their houses disinfected, cleansed and ventilated. In 87 cases they consented, and in 75 the bedding was removed for the purpose of disinfection. In 7 cases the bedding was washed in disinfectant at home, and in 14 cases the bedding was destroyed. Twenty-four of the deaths occurred in Dearnley Workhouse. Of the deaths from this cause 27, or 22·1 per cent. occurred in back-to-back houses. In 61 families, relations had died or were suffering from Phthisis. The following were the occupations of the 122 who died from this disease :—mill hands, 36 ; house workers, 25 ; labourers, 13 ; iron workers, 11 ; carters, 4 ; 3 each of dressmakers and tailors ; 2 each of hawkers ; publicans, stonemasons, school children and children under school age ; and 1 each of butcher, clerk, cigar maker, limewasher, leather currier, laundress, rag sorter, shop manager, hosiery knitter, painter, shoemaker, postman, coalminer, eyelet maker, and 3 with no occupation.

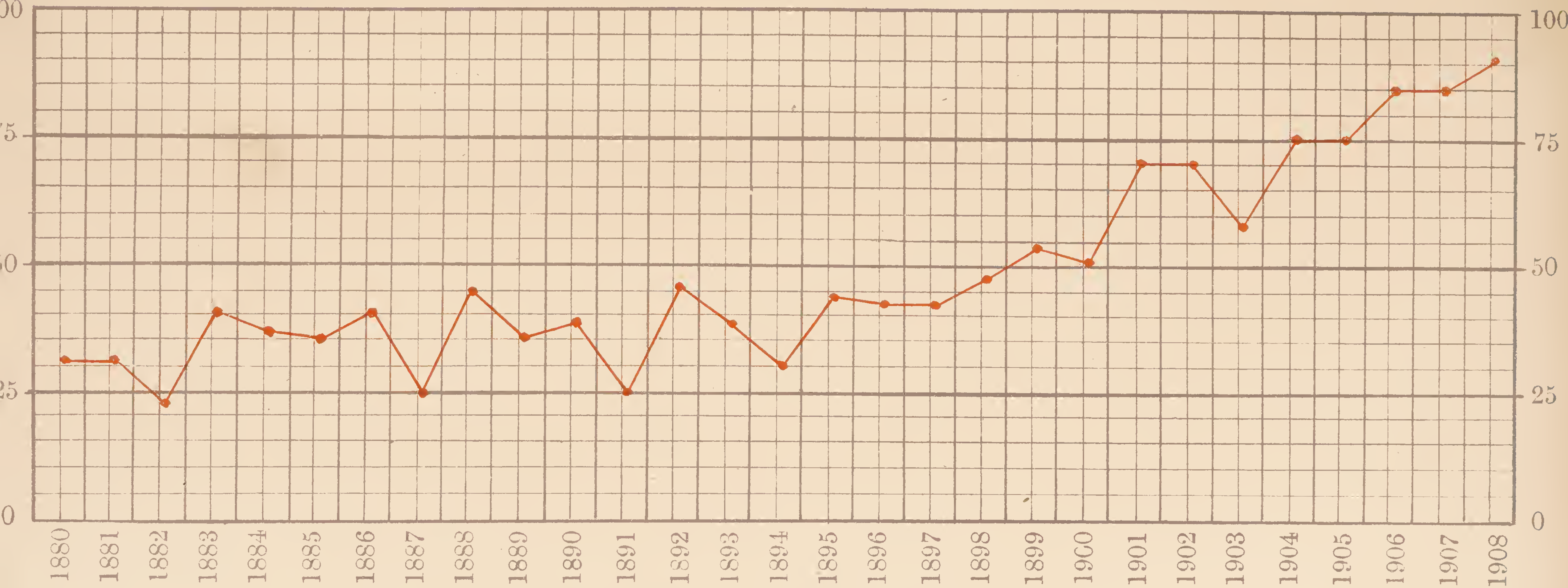
Other Respiratory Affections

Other Respiratory Diseases caused 264 deaths, equal to an annual death-rate of 2·97 per 1,000. Of these deaths 68 were of Infants under one year of age (see Chart I.), or 25·8 per cent. of the total deaths from this cause. Twenty-four were of children between the ages of one and five years, or 9·1 per cent., and eighty-two of persons over the age of 65 years, or 31·1 per cent. The highest death-rate was in Wardleworth West Ward 4·58, and the lowest in Castleton Moor Ward 2·11 per 1,000.

Cancer

There were 91 deaths from Cancer during the year ; males 27, females 64. Enquiries into these deaths have not been carried out during the year owing to the pressure of other more important work. The ages may be seen by referring to Table X. The cases are pretty equally distributed over the Borough. You will see by referring to Chart IV. the actual number of deaths from Cancer in each of the 29 last years. This shows an increase from 31 to 91, or 194 per cent. during the last 29 years.

CHART IV.



No. of Deaths annually from Cancer.

ROCHDALE BOROUGH.

Populations of Borough:—Year 1881—68,866; Year 1891—71,401; Year 1901—83,114; Year 1908—88,820.
(Census) (Census) (Census) (Estimate)

Uncertified Deaths

There was only one death uncertificated as to its cause, either by a registered Medical Practitioner or by the Coroner. This amounts to 0·06 per cent. of the total deaths, whilst the same rate for England and Wales was 1·4 per cent.

Inquests and Enquiries

There were 122 Inquests or Enquiries held by the Coroner during the year, on deaths of Rochdale residents, forming 7.5 per cent. of the total deaths. The Registrar-General gives the same rate for the whole of England and Wales as 7·0 per cent.

Hospital

On January 1st, 1908, there were 39 cases in Marland Hospital, of which 28 were Scarlet Fever, 3 Enteric Fever, 7 Diphtheria, and 1 doubtful. During the year there were admitted 190, or 31 less than the preceding year, of which 124 were Scarlet Fever, 43 Diphtheria, 20 Enteric Fever, 2 Doubtful and other Diseases, and 1 Small-pox. Of these 14 came from Middleton, 28 from Dearnley Workhouse, and the remainder from within the Borough. 22 deaths occurred during the year ; 12 Diphtheria, 4 Scarlet Fever, and 6 Enteric Fever. On December 31st, there remained in the Hospital 18 cases, of which 13 were Scarlet Fever, 3 Diphtheria, and 2 Enteric Fever. Eleven samples of food were taken from the Hospital, all of which were found on analysis to be genuine and of good quality.

Water Closets

As you are permitting the use of the slop-water system, I must again warn you that it is more offensive than the old pail system, is a retrograde step, and should be replaced by the clean-water system. This should be done for the following reasons :—The slop-water system becomes more and more offensive year by year by the adhesion to the pipes and tipplers, of soap, grease, cabbage-water, etc. ; the waste of clean water in the useless attempts to cleanse the foul-smelling closet, by a would-be clean occupier ; it would do away with the nuisance

The following Table shows the average Total, Zymotic, Respiratory, and Phthisis death-rates, also the average percentage of deaths in children under five years of age to the total deaths, for the seven years, 1901 *to* 1907, *in the most unsanitary sub-districts of your Borough.*

No. of Sub-District.	BOUNDARIES.	Density per acre.	Average 7 years—1901-1907.				
			Rates per 1,000 of Population.				Percentage of deaths in Children under 5 years of age to Total Deaths.
			Total Deaths.	From Seven Principal Zymotic Diseases.	From Respiratory Diseases (excluding Phthisis).	From Phthisis.	
	THE BOROUGH	**13·6**	**17·5**	**1·47**	**3·35**	**1·33**	**27**
C.F. 1	Manchester Road, Sudden Brook, River Roach, and line drawn from Eversleigh House, Manchester Road, to Brimrod Wood	5·8	22·2	1·64	4 74	1·27	24
C.N. 2	South Parade, Drake Street, Great George Street, School Lane, Church Steps, Packer Street	43·6	22·6	0·59	2·68	3·87	9
C.N. 3	Drake Street, Church Stile, School Lane, Great George Street, to 72A, Drake Street	26·0	30·6	1·99	6·82	3·95	19
C.N. 5	Trafford Street, Tweedale Street, Manchester Road	105 1	18·2	1·36	4·56	1·70	26
C.N. 13	Wet Rake, Drake Street, Milkstone Road, Railway, Oldham Road	28·2	22·6	2·39	4·12	1·86	27
C.N. 14	Drake Street, Wet Rake, Milnrow Road, Molesworth Street, River Roach ...	45·1	23·8	2·53	4·43	1·37	29
C.N. 17	Fishwick Street, Ainsworth Street, Oldham Road, Old Circular Borough Boundary Line, Railway	60·7	21·2	1·95	4·24	1·82	33

S.N. 1	Toad Lane, St. Mary's Gate, Bury Road, College Street, Spotland East Ward Boundary Line	77·2	30·8	1·23	4·81	3·20	21
S.N. 2	Bury Road, College Street, Spotland West Ward Boundary Line, River Spodden...	36·5	27·2	2·42	5·03	2·42	38
W. 1	Penn Street, River Roach, Spotland East Ward Boundary Line, High Street, Redcross Street, Cheetham Street, Yorkshire Street	37·3	24·6	2·37	3·2	2·74	26
W. 3	Whitehall Street, Rope Street, Mill Street, Hope Street, Redcross Street, Cheetham Street, Yorkshire Street	75·3	27·7	0·95	5·88	3·98	23
W. 4	Whitehall Street, Howard Street, Duke Street, Sladen Street, Whitworth Road, Yorkshire Street	81·9	26·9	1·34	5·11	3·22	33
W. 6	Whitehall Street, Rope Street, Mill Street, Hope Street, Redcross Street, Industry Road	89·6	22·8	1·82	4·56	2·73	29
W. 7	Redcross Street, High Street, Toad Lane, Hope Street	154·5	22·0	2 77	3·47	1·16	43
W. 10	West Street, South Street, Railway, Yorkshire Street	96·0	19·5	1·26	3·66	1·72	26
W. 14	Yorkshire Street, Whitworth Road, Haynes Street, Elliott Street ...	77·1	24·9	3·13	4·70	2 42	35
W. 15	Haynes Street, Railway, Whitworth Road, Wellington Street	79·5	22·5	2·16	3·95	1·32	31
Wu. 5	Buckley Lane, Borough Boundary Line, Halifax Road	15·9	20·4	1·01	6·22	0·72	24
Wu. 6	Millgate, Halifax Road, Borough Boundary Line, Howarth Cross Mill ...	21·9	24·1	1·81	6·16	1·45	26

caused by the nightsoil carts going about during the daytime. It would be cheaper for your Council to allow free water to all cottage water closets, as in most other towns, and certainly better for the public health. The change from the pail to the clean water carriage system would be gradual and therefore little felt by the ratepayers. The longer this change is delayed the greater will be the hardship to the ratepayers.

Offensive Trades

228 Inspections have been made of the Offensive Trades carried on within the Borough, which number 12, viz. :—Tripe boilers 6, tallow melters 2, fellmongers 2, skindressers 1, and bone boilers 1. During the year two applications for permission to establish the business of fellmonger and tripe boiler respectively were made to your Committee. The proposed situation of these were such that, on inspection, I found the business could not be carried on without creating a nuisance to the surrounding neighbourhood. On reporting this fact to the Committee the applications were accordingly refused.

Slaughter-houses and Cowsheds

3,683 visits of inspection have been made of the Slaughter-houses, and 349 of the Cowsheds, etc. Sanitary defects and breaches of regulations were noted, and notices served to remedy them. As our bye-laws relating to Slaughter-houses are old and imperfect, and not adapted to the present date, I would again suggest that you revise and embody in them some of the recommendations from the Report of the Committee appointed by the Admiralty upon the subject of the Humane Slaughtering of Animals, and apply to the Local Government Board for the sanction of same.

Diseased Meat

The amount of meat and other food stuffs which was seized or surrendered and destroyed on account of its being diseased or in an unsound condition was as follows :—Beef, 2,309 lb. ; Pork, 833lb. ; Veal, 208lb. ; Lamb, 130lb. ; Mutton, 30lb. ; Fish, 60lb. ; Beast Livers, 300lb. ; Chitlings, 224lb. ; Green Peas, 6 pecks ; in addition to a number of Black Puddings, Yorkshire Ducks, and a quantity of offal and fruit. No legal proceedings for unsound meat were instituted during the year.

Smoke Observations

235 observations, each of one half-hour's duration (against 222 last year) were made of smoke issuing from factory and other chimneys in the Borough, and reported to you. The time limit (three minutes black smoke in half-an-hour from chimney with one, two, or three boilers, and four minutes for four or more boilers) was exceeded in 22 instances, and in each of these notice to abate the nuisance was served. The duration of black smoke in cases exceeding the time limit varied from 3½ to 8 minutes, with one exception (24 minutes). For failing to comply with the notice legal proceedings were instituted against four firms and an order for abatement, with payment of costs, was made in each case. Three of these firms have since fitted smoke consuming apparatus to the boilers. Four other firms who received notice to abate have carried out certain alterations ; in one case by providing an additional boiler, in two others by taking out 5 low-pressure boilers and replacing by two high-pressure, and in another by fixing a large fan to induce the draught. Where these alterations have been carried out no further complaint has been necessary.

The fixing of a time limit by your Council has been very beneficial. After the taking of an observation and the result showed the limit to be exceeded, your inspector visited the works and reported the result to the occupier, ascertaining at the same time the number of boilers, and if fitted with smoke consuming apparatus. The same day a letter was dispatched to the firm offending, giving a detailed result of the observation. In nearly every instance the replies to these letters were received, and duly laid before your Committee. Judging from these replies there appears to be a great desire on the part of the various mill-owners to keep within the limit, and, in my opinion, there is a great improvement.

Factory and Workshops Act

173 visits of Inspection were made to Workshops, and 508 to Bakehouses. Defects and breaches of regulations were noted and subsequently remedied. For details of inspections, etc., under these Acts see end of Report.

Food and Drugs Act

Under the Food and Drugs Act, 193 samples of Foodstuffs were submitted for analysis, or 2 less than the preceding year, with the result that proceedings were taken in six cases, and in five, letters of caution were sent to the vendors. Legal proceedings were instituted against a farmer for refusing to sell milk to the Inspector, and a fine of 21/- and costs was obtained. A more detailed account of samples taken will be found on referring to Table XVI. In addition to the above, 22 samples of Water (18 Town's supply, and 4 from wells) have been taken and submitted for analysis, 19 of which were found to be contaminated. With regard to the contaminated samples of Town's supply the Heywood and Middleton Water Board were communicated with respecting three of them, and the remainder were referred to the Waterworks Committee of this Corporation. In the case of the contaminated supplies from wells letters were sent to the owners by the Town Clerk.

Canal Boats Act

Forty-seven Inspections have been made of Canal Boats during the year. They were all found to comply with the Acts and Regulations.

Midwives Act

The number of Midwives who have notified their intention to practice within the Borough during the year 1909 is 48. The whole of the Midwives, with the exception of four reside within the Borough. Three additional Midwives have been registered, four have discontinued their practice, and one has died during the year. As there were no serious complaints against the Midwives, the Committee did not meet during the year. 180 visits were paid to Midwives for the purpose of inspecting bag, appliances, etc., and enquiring into mode of practice, etc., with the result that they all complied fairly well with the Act and regulations. The following notifications, as required by Section E (18) of the Rules framed by the Central Midwives' Board have been received from Midwives :—Sending for medical help, 164 ; Still-born 16.

Sanitary Work

The Sanitary Work of the Borough has been carefully carried out under your instructions. The nuisances dealt with by the Inspectors, and the number of premises visited and inspected, will show that a great deal of valuable work has been accomplished. House-to-house Inspection has been carried out in the following places :—Middle-lane, Mill-street, High-street, Wilson-street, Howard-street, Tulip-place, Blossom-place, Sergeant-street, Major-street, Victoria-street, Regent-street, Baillie-street, Heape-street, Hamer-lane, Chapel's-court, Joshua-street, Temple-street, Janeway-street, Pym-street, League-street, Fern-street, Church-street, Sparth Bottoms road, Castlefoot-road, Syntax-place, and Bamford-street.

The following Statement shows how some of the insanitary property of the town has been dealt with during the year :—

Ward	Situation	No. of Houses	Summary of Defects	Action Taken	Remarks
Spotland West	**25 to 37, BURY-ROAD 1 to 6, ROTHWELL PLACE and 1 & 5, HAMILTON STREET**				
	27, Bury-road	1	Back to back on ground floor: ventilation bad ; plaster on walls and ceilings defective; floor flagging bad ; woodwork in generally dirty and dilapidated condition; Slopstone defective ; drains defective. Some of windows unopenable. Pail closet insanitary.	Ground floor room broken through to 1st floor room of No. 1, Rothwell-place: slopstone removed from front room & fixed in back; front drains abolished ; washing boiler placed in room formerly used as kitchen of No. 1. New slopstone provided. Drain inlet in cellar and drain running under premises abolished. Cellar provided with means of ventilation, rendered inaccessible for use as living room, and the coal areas filled in. Drains in Rothwell-place reconstructed, ventilated and rendered accessible ; flagging and channelling of yard relaid. Covered passage now useless bricked up and rendered inaccessible. Plastering and woodwork overhauled and all rooms done through—papered, whitened and painted. New sash windows provided where ne-	Reconstruction of closet and ashplace building held over in view of conversion to water-carriage system.
	1, Rothwell-place	1	Back to back on ground floor with cellar under No. 27, Bury-road. Cellar in a filthy and insanitary condition and containing a defective drain inlet. Ventilation very bad. Generally dilapidated condition of floors, walls, ceilings, woodwork and fittings. Window frames old and perished and sashes fast. Drains defective ; flagging and channelling at front defective and unlevel. Pail closet insanitary.		

		Other defects as No. 27.		
2, Rothwell-place	1	Back to back on ground floor with cellar under No. 29, Bury-road. Other defects as No. 1.	Similar to above.	Ditto.
31, Bury-road	1	Back to back on ground floor: ventilation bad. Other defects as No. 27.	Ditto.	Ditto.
3, Rothwell-place	1	Back to back on ground floor with cellar at No. 31. Other defects as No. 1.		
33, Bury-road	1	Back to back on ground floor: ventilation bad; open and dangerous cellar area always in filthy condition and containing untrapped drain. Other defects as No. 27.	Ditto. also drains removed from area; old wash-cellars abolished; area flagged over.	Ditto.
4, Rothwell-place	1	Back to back on ground floor with cellar of No. 33. Other defects as No. 1.		
35, Bury-road	1	Back to back on ground floor: ventilation bad: Other defects as No. 33.	Ditto.	Ditto.
5, Rothwell-place	1	Back to back on ground floor with cellar of No. 35. Other defects as No. 1.		
37, Bury-road	1	Back to back on ground floor: ventilation bad. Other defects as No. 33.	Ditto.	Ditto.
6, Rothwell-place	1	Back to back on ground floor with cellar of No. 37. Other defects as No. 1.		

Continued.

Ward	Situation	No. of Houses	Summary of Defects	Action Taken	Remarks
Spotland West	1, Hamilton-street ...	1	One room only : back to back with cellar of No. 25, Bury-road ; floors and walls very damp and dilapidated ; ventilation bad ; drainage defective.	Closed by owner on representation by Inspector.	
	2 to 20, Temple-street	10	Houses not through, but with small windows at back : scullery and back bedroom in each house very dark and badly ventilated ; walls cracked and brickwork in bad condition ; generally dirty and dilapidated. Front street badly drained and paved ; rear passage unpaved and in filthy condition ; closets and ashplace dilapidated.	All old inopenable windows taken out and new sash windows provided : small windows to sculleries and back bedrooms replaced by larger sash windows ; front street sewered and repaved ; rear passage properly paved. All brickwork repointed ; houses done through inside and overhauled outside ; closet and ashplace building overhauled.	
Spotland East	**12, 14, & 16, JANE ST. 1, 3, & 5, BROWN COW YARD.**				
	12, Jane-street	1	Back to back : ventilation bad ; wall and ceiling plaster, floor flagging, woodwork and fittings all in a dilapidated condition ; brickwork defective and walls damp.	Broken through and made into one dwelling : floor of back kitchen concreted and washing set-pan fixed ; all plaster and woodwork renewed ; papering, painting and limewashing carried out, windows taken out and replaced with sash windows ; fittings renewed. Brickwork all pointed and gable rendered in cement.	
	1, Brown Cow-yard ...	1	Back to back : ventilation bad ; wall and ceiling plaster defective ; floor flagging defective and damp ; woodwork and fittings dilapidated ; brickwork defective and walls damp.		

	5, Brown Cow-yard ...	1	Back to back : defects as No. 1	Ditto.
	16, Jane-street	1	Back to back : defects as No. 12.	
	5, Brown Cow-yard ...	1	Back to back : defects as No. 1	
Wardlew'rth West	Nos. 1 to 9, Granville-square, 1 to 11, Granville-street, 1 to 11, Hope-street ...	21	Two badly lighted and badly ventilated cottages : one cottage formerly used as stable and preventing circulation of air round closets ; one block of closets too near dwellings ; insufficient and unsuitable ashplace accommodation ; large common yard without proper paving and too much enclosed.	Three cottages demolished. 10 closets and 7 ashplaces constructed on site of two of cottages, and all the old closets abolished. The whole of the yard surface paved with grit setts. Yard now open for its full area and no light obstructed from dwellings.
Spotland West	48, Holland-street? ...	1	Back to back : ventilation bad ; plastering of walls and ceilings defective and damp in parts ; all woodwork old and dirty ; one wall cracked. Closet accommodation insufficient.	Broken through and made into one dwelling : plastering reinstated ; rooms done through—painted, papered and whitened ; slopstone removed from front and placed in back ; new branch drain provided and waste-pipe disconnected over trapped gully ; woodwork and fittings renewed where necessary.
	4, in No. 5 Court Holland-street	1	Back to back : ventilation bad ; light obstructed by high wall opposite ; no proper circulation of air in yard ; defective and perished plastering to walls and ceilings ; all woodwork old and dirty ; no means of draining off slop-water from premises. Closet accommodation insufficient.	

Continued.

Ward	Situation	No. of Houses	Summary of Defects	Action Taken	Remarks
Spotland West	46, Holland-street ...	1	Back to back : other defects as No. 48.	Ditto.	
	3, in No. 5 Court Holland-street	1	Back to back : other defects as No. 4.		
Castleton South	22 to 26, Haigh-street, 12, to 18, Lincoln-street 4 to 6, Back Durham-street	9	Badly lighted and ventilated and in generally bad state of repair. Two cottages in a dilapidated condition. Defective drainage. Defective pail closets and an insanitary urinal.	The 2 cottages pulled down. Three houses made into through dwellings. New kitchen and bedroom built for 24, Haigh-street and 12, Lincoln-street. New scullery built for 18, Lincoln-street. Washing setpan provided for each house. All houses overhauled and done through. Common yard enclosed by brick wall. Drains reconstructed. 9 water closets provided. 3 dry ashpits built. 1 slate urinal built.	

Thirty back-to-back houses have been made into through houses. In addition to these some owners of property have converted back-to-back houses into through houses without consulting the Public Health Department. The following Table shows the number of dwelling houses condemned during the year as unfit for human habitation.

Ward	Date of Order of Council	No. of Houses	Situation of Premises
Wardleworth South	5th March, 1908 ...	1	No. 2, New Building's-place
Wardleworth West	,, ,, ...	1	Under No. 39, Rope-street
Spotland West	7th May, 1908 ...	13	Nos, 34, 36, 38, 40, Holland-street Nos, 1, 2, 3, 4, in 4 Court Holland-street Nos. 10, 11, 12, 13, Town Mill Brow No. 107, Bury-road
Castleton South	,, ,, ...	3	Nos. 7, 9, 11, Calf Hey South
Wardleworth East	,, ,, ...	1	No. 2, in 1 Court Ogden-street

Three of the dwellings closed during the year 1907 as unfit for human habitation have during the year been overhauled and repaired to my satisfaction, and the Closing Order revoked by the Council.

Disinfection etc.

457 visits of Inspection have been made to houses where cases of Infectious Disease existed. Disinfectants and printed instructions as to measures necessary to check the spread of the infection, were distributed. After recovery, death or removal to Hospital, 289 rooms were thoroughly disinfected and cleansed.

210 rooms were disinfected after death from Pulmonary Tuberculosis, and three Elementary Schools (23 rooms) were sprayed and disinfected.

The following articles of infected bedding and clothing were disinfected by steam :—

Pillows, Bolsters, and Cases	1034
Beds	306
Blankets	303
Bed-sheets and Quilts	511
Underclothing	192
Shawls, Bodices, and Skirts	152
Mattresses	40
Carpets and Rugs	20
Miscellaneous	127

In concluding my report, I must again, for the last time, thank my staff of officers for their valuable assistance and you, gentlemen, for your kindness and courtesy towards me.

I am, Gentlemen,
Yours obediently,
J. HENRY, M.D.,
Late Medical Officer of Health.

Town Hall, Rochdale,
21*st May,* 1909

. ˙ . APPENDIX. . ˙ .

TABLE I.

DISTRICT.	Population. (Est. to middle of 1908.)	Acreage.	Density per Acre.	Births Regist'd	Deaths.					Infantile Mortality per 1000 Births Registered.	Rate per 1,000 of Est. Population.				
					Total.	Under one year of age.	From 7 Principal Zymotic Diseases.	From Respiratory Diseases.	From Phthisis.		Births.	Deaths.	From 7 Principal Zymotic Diseases.	From Respiratory Diseases.	From Phthisis.
The Borough ...	**88820**	**6446**	**13·78**	**2202**	**1632**	**371**	**213**	**264**	**122**	**168**	**24·8**	**18·4**	**2·40**	**2·97**	**1·37**
Castleton East Ward	11004	467	23·56	304	215	60	47	33	17	197	27·6	19·5	4·27	3·00	1·54
,, South ,,	10922	434	25·17	269	181	45	25	26	11	167	24·6	16·6	2·29	2·38	1·01
,, North ,,	5095	265	19·23	98	95	16	16	12	7	163	19·2	18·6	3·14	2·36	1·37
,, West ,,	8996	397	22·66	201	148	33	13	24	13	164	22·3	16·5	1·45	2·67	1·45
,, Moor ,,	8073	2261	3·57	221	112	25	10	17	6	113	27·4	13·9	1·24	2·11	0·74
Spotland East ...	7413	664	11·16	162	127	29	12	19	8	179	21·9	17·1	1·62	2·56	1·08
,, West ...	8692	741	11·73	200	170	28	15	19	11	140	23·0	19·6	1·73	2·19	1·27
Wardleworth East ...	6644	368	18·05	186	120	34	15	30	9	183	28·0	18·1	2·26	4·52	1·35
,, West ...	6118	281	21·77	187	146	32	14	28	17	171	30·6	23·9	2·29	4·58	2·78
,, South	8702	118	73·75	215	188	50	29	35	13	233	24·7	21·6	3·33	4·02	1·49
Wuerdle	7161	450	15·91	159	130	19	17	21	10	119	22·2	18·2	2·37	2·93	1·40

TABLE II.

Vital Statistics of Whole Borough during 1908 and Ten previous years.

YEAR.	POPULATION ESTIMATED TO MIDDLE OF EACH YEAR.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE BOROUGH.				Total Deaths in Public Institutions in the Borough.	Deaths of Non-Residents registered in Public Institutions in the Borough.	Deaths of Residents registered in Public Institutions beyond the Boro'.	Nett Deaths at all ages belonging to the Borough.	
				Under one year of age.		At all ages.						
		Number.	Rate.	Number.	Rate per 1,000 births registered.	Number.	Rate.				Number.	Rate.
1898	74707	1892	25·3	251	133	1244	16·7	23	5	124	1363	18·2
1899	75180	1838	24·4	319	173	1423	18·9	25	5	133	1551	20·6
*1900	75652	1799	23·8	301	167	1399	18·5	30	4	124	1519	20·1
1901	83114	1903	22·9	275	144	1403	16·9	40	8	134	1529	18·4
1902	84057	2045	24·3	260	127	1396	16·6	47	9	118	1505	17·9
1903	84824	2071	24·4	283	137	1328	15·7	37	10	137	1455	17·1
1904	85600	1950	22·8	295	151	1381	16·1	60	12	148	1517	17·7
1905	86390	1880	21·8	250	133	1305	15·1	51	13	151	1443	16·7
1906	87190	2058	23·6	284	139	1379	15·8	82	15	167	1531	17·6
1907	88000	2097	23·8	253	121	1340	15·2	68	11	164	1493	17·0
Average 1898-1907	82471	1953	23·7	277	143	1360	16·6	46	9	140	1491	18·1
1908	88820	2202	24·8	371	168	1482	16·7	65	13	163	1632	18·4

* The Borough was extended, in this year, by the addition of Castleton Moor with a population of 7,000.

Area of Borough in acres (exclusive of area covered by water). } 6,333

Total population at all ages..............	83,114	Census of 1901.
Number of inhabited houses	20,191	
Average Number of persons per house.	4·1	

TABLE III.

Showing Number of Cases notified, and Deaths, during last Ten years.

Year.	Smallpox.		Erysipelas.		Diphtheria and Membranous Croup.		Scarlet Fever.		Enteric and Continued Fever.		Puerperal Fever.		Typhus Fever.		Cerebro Spinal Meningitis.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
1899.........	...	...	84	2	29	13	211	9	35	9	9	3	...	...	...	...
1900.........	2	...	42	2	32	7	114	2	30	3	9	3	...	...	...	...
1901.........	1	...	81	5	44	16	195	7	51	8	13	6	...	...	...	...
1902.........	24	...	61	...	36	9	91	2	37	4	10	3	...	...	...	...
1903.........	114	5	69	3	69	21	304	11	31	7	7	3	...	...	...	...
1904.........	3	1	60	1	55	18	413	14	22	7	11	2	...	...	...	...
1905.........	2	...	81	2	54	26	478	22	34	3	8	5	...	...	...	...
1906.........	4	...	73	6	81	20	335	13	23	5	13	5	...	...	...	...
1907.........	1	...	50	...	104	22	245	4	16	5	10	6	...	...	1	1
1908.........	...	...	55	1	82	19	152	7	23	9	5	1	...	...	...	...

TABLE IV.

Cases of Infectious Disease Notified during the Year 1908.

Disease.	Cases Notified in Whole District.							Total Cases Notified in each Ward.											Number of Cases removed to Hospital from each Ward.										
	At all Ages.	At Ages—Years.																											
		Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and upwards	Castleton North	Castleton South	Castleton East	Castleton West	Castleton Moor	Spotland East	Spotland West	Wardleworth East	Wardlew'th South	Wardleworth West	Wuerdle	Castleton North	Castleton South	Castleton East	Castleton West	Castleton Moor	Spotland East	Spotland West	Wardleworth East	Wardlew'th South	Wardleworth West	Wuerdle
Smallpox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria & Membranous Croup ...	82	...	34	35	5	8	...	9	10	7	15	16	3	2	4	5	3	8	4	4	4	8	9	1	...	2	...	...	2
Erysipelas	55	...	...	9	5	36	5	4	4	2	5	9	4	3	10	6	4	4	...	...	..	...	...	...	...	...	...	...	...
Enteric and Continued Fever...	23	...	1	3	7	12	...	1	1	...	6	2	3	6	1	2	...	1	1	1	...	5	2	1	5	...	2	...	1
Scarlet Fever	152	1	38	102	9	2	...	6	16	27	15	7	13	23	15	11	12	7	5	8	24	10	6	4	9	9	8	7	6
Puerperal Fever	5	...	...	...	1	4	...	...	...	...	...	1	2	...	...	...	...	[2	...	...	...	...	...	...	...	...	...	...	...
Totals...........	317	1	73	149	27	62	5	20	31	36	41	35	25	34	30	24	19	22	10	13	28	23	17	6	14	11	10	7	9

TABLE V.

YEAR.	CASTLETON No. 1.				CASTLETON No. 2.				SPOTLAND.				WARDLEWORTH.				WUERDLE.			
	Population, estimated to middle of the year.	Births Registered.	Deaths at all ages.	Deaths under One Year.	Population, estimated to middle of the year.	Births Registered.	Deaths at all ages.	Deaths under One Year.	Population, estimated to middle of the year.	Births Registered.	Deaths at all ages.	Deaths under One Year.	Population, estimated to middle of the year.	Births Registered.	Deaths at all ages.	Deaths under One Year.	Population, estimated to middle of the year.	Births Registered.	Deaths at all ages.	Deaths under One Year.
*1901	20507	484	382	76	20192	450	334	62	15230	306	268	39	20272	504	404	76	6913	159	141	22
1902	20733	513	398	76	20447	498	333	50	15405	318	275	34	20486	558	378	79	6986	158	117	21
1903	21033	549	346	73	20607	460	352	68	15565	342	232	42	20603	559	404	88	7016	161	121	14
1904	21203	506	376	87	20817	439	351	50	15695	305	270	48	20829	551	404	86	7056	149	116	25
1905	21356	450	366	62	21049	473	338	53	15818	317	254	33	21083	528	386	92	7084	112	99	11
1906	21478	545	368	80	21454	473	361	60	15950	333	277	52	21201	547	407	76	7107	160	118	17
1907	21646	495	372	68	21910	534	365	57	16047	347	258	44	21277	556	356	57	7120	165	142	27
1908	21926	573	396	105	22164	520	355	74	16105	362	297	57	21464	588	454	116	7161	159	130	19

* Census Populations.

TABLE VI.

Table showing Average Deaths from Seven Principal Zymotic Diseases, in periods of 10 *years, since year* 1856.

Period.	Average Number of Deaths.								Average Rate per 1,000 of Estimated Population.							
	Total Zymotics	Small Pox	Measles	Scarlet Fever	Whooping Cough	Fever	Diarrhœa	Diphtheria	Total Zymotics	Small Pox	Measles	Scarlet Fever	Whooping Cough	Fever	Diarrhœa	Diphtheria
1856-1865 ...	172	4	28	49	18	33	38	3	4·56	0·12	0·73	1·27	0·48	0·87	1·03	0·07
1866-1875 ...	219	8	25	57	23	43	57	5	4·33	0·17	0·50	1·09	0·46	0·82	1·12	0·11
1876-1885 ...	171	9	33	39	23	28	29	4	2·51	0·13	0·49	0·58	0·34	0·41	0·46	0·06
1886-1895 ...	111	1	23	16	25	14	19	12	1·54	0·01	0·32	0·22	0·36	0·19	0·27	0·16
1896-1905 ...	120	0·6	30	10	25	8	33	13	1·51	0·00	0·39	0·12	0·31	0·10	0·41	0·16
1906	161	...	50	13	19	8	51	20	1·85	0·00	0·57	0·15	0·22	0·09	0·58	0·23
1907	92	...	24	4	27	5	10	22	1·04	0·00	0·27	0·04	0·31	0·06	0·11	0·25
1908	213	...	66	7	25	9	87	19	2·40	0·00	0·74	0·08	0·28	0·10	0·98	0·21

In the year 1872 the Borough was extended by the addition of about 19,000 inhabitants, and in Nov., 1900, by about 7,000 inhabitants.

TABLE VII.

Table showing the Average Death-rate, Birth-rate, Rate of Mortality amongst children under one year, under five years, and in persons over 65 years of age, in periods of five years, since the year 1856.

Period of Years.	Average Total Deaths.	Average Death-rate per 1,000 of Estimated Population.	Average Total Births.	Average Birth-rate per 1,000 of Estimated Population	Average Number of Deaths under 1 year of age.	Average Deaths in children under 1 year to percentage of Total Deaths.	Average Deaths in children under 1 year to 1,000 Births.	Average Number of Deaths under 5 years of age.	Average Deaths in children under 5 years to percentage of total Deaths.	Average Number of Deaths over 65 years of age.	Average Deaths in persons over 65 years of age to percentage of Total Deaths
1856-1860	832	23·5	1223	34·5	200	24	163	356	44	118	14
1861-1865	957	24·3	1343	34·1	211	22	157	412	43	131	14
1866-1870	1061	24·9	1481	34·7	264	25	178	443	42	144	14
1871-1875	1445	23·4	2195	35·9	353	24	162	605	42	213	15
1876-1880	1511	22·2	2320	34·1	369	24	158	674	44	269	18
1881-1885	1341	19·4	1973	28·5	282	21	143	481	36	291	22
1886-1890	1337	18·9	1840	25·8	275	21	159	471	35	324	24
1891-1895	1403	19·4	1769	24·5	268	19	151	457	32	377	27
1896-1900	1410	18·8	2054	24·8	283	20	153	446	32	401	28
1901-1905	1490	17·6	1970	23·2	273	18	139	412	27	353	23
1906	1531	17·6	2058	23·6	285	19	138	431	28	344	22
1907	1493	17·0	2097	23·8	253	17	121	412	28	339	23
1908	1632	18·4	2202	24·8	371	23	168	535	33	398	24

In the year 1872 the Borough was extended by the addition of about 19,000 inhabitants, and in November, 1900, by about 7,000 inhabitants

TABLE VIII.

Table showing Average Deaths from Respiratory Affections, in periods of ten years, since the year 1856.

Period	Average Estimated Population	Average Number of Deaths		Average Rate per 1,000 of Estimated Population	
		Pulmonary Consumption	Other Repiratory Affections	Pulmonary Consumption	Other Respiratory Affections
1856-1865	37419	128	133	3·43	3·54
1866-1875	51811	164	230	3·18	4·43
1876-1885	68365	158	279	2·21	4·09
1886-1895	71492	130	299	1·82	4·18
1896-1905	79752	115	294	1·45	3·71
1906	87190	111	235	1·27	2·70
1907	88000	113	309	1·28	3·51
1908	88820	122	264	1·37	2·97

TABLE IX.

Notifications of Infectious Diseases during each month of the year 1908.

MONTH.	TOTALS.	Small Pox.	Scarlet Fever.	Enteric Fever.	Puerperal Fever.	Diphtheria.	Erysipelas.	*Phthisis.
January	52	...	32	5	...	9	4	2
February	38	...	20	...	...	17	1	...
March	27	...	9	2	1	10	4	1
April	31	...	13	6	...	6	5	1
May	14	...	5	...	...	6	3	...
June	21	...	12	1	1	4	3	...
July	19	..	9	...	1	2	5	2
August	22	...	14	1	...	2	3	2
September	18	...	6	1	...	5	5	1
October	26	...	6	4	1	5	8	2
November	28	...	12	2	...	7	6	1
December	34	...	14	1	1	9	8	1
TOTALS	330	...	152	23	5	82	55	13

* Voluntary Notifications.

TABLE X.

Showing causes of Deaths of Inhabitants of the Whole Borough during the year ended 31st December, 1908.

Population 88,820. *Acreage* 6,446.

No.	CAUSE OF DEATH.	Deaths in or belonging to the Borough, at subjoined ages.							Deaths in or belonging to the various Wards of the Borough, at all ages.											Total Deaths in Public Institutions in the Borough.
		All Ages.	Under 1 year.	1—5	5—15	15—25	25—65	65 yrs & upw'ds.	Cast'n North.	Cast'n West.	Cast'n Moor.	Cast'n East.	Cast'n South.	Spot'd East.	Spot'd West.	W'rd'th East.	W'rd'th West.	W'rd'th South.	Wu'rdle	
1	Small-pox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	Measles	66	21	43	2	...	...	...	6	6	3	17	4	4	1	4	8	7	6	...
3	Scarlet Fever	7	...	2	4	1	...	...	...	2	...	2	1	...	...	...	...	...	2	4
4	Typhus Fever...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	Epidemic Influenza	32	...	...	...	1	17	14	5	2	...	4	4	2	2	5	4	1	3	...
6	Whooping Cough	25	10	15	...	...	...	...	...	1	1	2	4	3	4	...	2	6	2	...
7	Diphtheria	19	...	12	7	...	...	...	4	1	3	3	4	1	1	...	...	...	2	11
8	Croup	1	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
9	Enteric Fever...	9	...	...	...	3	6	...	1	3	1	...	...	1	1	...	...	1	1	5
10	Asiatic Cholera	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	Diarrhœa, Dysentery	67	48	15	...	...	2	2	3	...	1	20	9	2	5	8	3	13	3	...
12	Zymotic Enteritis	20	18	2	...	...	...	...	2	...	1	3	3	1	3	3	1	2	1	1
13	Enteritis	11	5	...	...	1	2	3	...	3	...	...	1	...	1	1	1	2	2	...
14	Other continued Fevers	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	Erysipelas	1	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...
16	Puerperal Fever	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	..
17	Other Septic Diseases	2	...	...	...	...	2	...	...	...	...	...	...	...	1	...	1	...	...	...
18	Intermittent Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	Tuberculosis of Meninges	21	6	10	5	...	...	...	...	...	2	3	2	2	1	3	3	5	...	...
20	Tuberculosis of Lungs	122	...	...	4	22	84	12	7	13	6	17	11	8	11	9	17	13	10	1
21	Other forms of Tuberculosis	23	7	5	1	...	9	1	...	2	...	2	2	4	4	5	2	1	1	...
22	Alcoholism	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...
23	Cancer	91	...	...	...	...	61	30	4	11	9	10	12	5	10	10	3	10	7	5
24	Premature Birth	53	53	...	...	...	...	...	2	9	7	5	7	3	6	4	4	3	3	...
25	Developmental Diseases	88	73	13	...	...	2	...	2	7	6	13	11	10	8	8	7	11	5	1
26	Old Age	75	...	...	...	...	1	74	4	8	7	11	7	6	13	3	5	4	7	...
27	Meningitis	7	5	...	2	...	...	...	...	1	1	1	2	...	...	...	1	1	...	...
28	Inflamation and Softening of Brain	7	...	1	1	...	2	3	1	1	...	2	2	...	...	...	...	...	1	...
29	Organic Heart Disease	47	...	...	...	3	28	16	2	2	2	2	5	6	11	4	6	1	6	...
30	Acute Bronchitis	57	28	4	1	...	13	11	2	4	4	11	8	4	4	3	7	5	5	...
31	Chronic Bronchitis	77	...	...	1	...	26	50	1	7	7	3	9	9	5	11	6	8	11	...
32	Lobar Pneumonia	12	...	3	2	...	5	2	...	1	2	...	1	1	2	...	3	1	1	...
33	Lobular Pneumonia	57	33	12	1	...	8	3	5	3	3	7	6	2	4	8	6	11	2	1
34	Stomach Diseases	12	2	...	...	...	9	1	2	...	...	2	3	...	1	...	2	...	2	...
35	Intestinal Obstruction	15	3	1	...	...	4	7	2	4	1	...	1	...	1	...	1	4	1	5
36	Cirrhosis of Liver	10	...	...	...	...	7	3	...	1	1	1	...	2	1	2	...	2	...	...
37	Nephritis	71	2	1	3	3	48	14	1	9	5	6	5	2	8	5	10	11	9	...
38	Tumours and other Affections of Female Genital Organs	3	...	...	...	1	2	...	...	...	...	1	1	...	...	...	...	1	...	1
39	Accidents and Diseases of Parturition... ...	9	...	...	...	2	7	...	...	...	2	2	3	...	1	...	...	...	1	...
40	Deaths by Accident or Negligence	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
41	Deaths by Suicide	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
42	Deaths from Ill-defined Causes	1	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
43	Inquests	122	21	11	3	8	60	19	12	13	9	8	14	13	10	3	17	13	10	21
44	Uncertified Deaths	1	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
45	All other Causes	389	34	13	18	9	183	132	27	33	26	57	39	35	50	21	26	50	25	9
	ALL CAUSES	1632	371	164	55	54	590	398	95	148	112	215	181	127	170	120	146	188	130	65

TABLE XI.

A TABULATED SUMMARY OF METEOROLOGICAL NOTES FOR THE YEAR 1908.

MONTHS.	Barometer reduced to 32° and Sea Level.						TEMPERATURE.									RAINFALL.				Mean degree of humidity, Saturation being 100.	Direction of Wind and No. of Days.								
	MEAN	HIGHEST.		LOWEST.		RANGE.	MEAN.	HIGHEST.		LOWEST.		Mean of Max. Thermometer.	Mean of Min. Thermometer.	Lowest on Grass.		TOTAL.	Greatest Fall.		No. of Days on which Rain fell.		N	NE	E	SE	S	SW	W	NW	Calm.
		in In.	Dte	in In.	Dte			°F	Dte	°F	Dte			°F	Date.		in In.	Date.											
Jan. ……	30·069	30·548	21	29·077	8	1·471	35·9	51·5	17	21·5	12 & 13	41·3	31·4	14·5	13	4·395 S. & R.	1·080	26	13	Readings not obt'inable	…	5	…	…	..	12	1	2	11
Feb. ……	29·947	30·622	6	29·064	28	1·558	40·1	52·0	19 & 22	28·5	29	45·0	35·5	20·0	29	4·385 S. & R.	0·810	22	22		…	…	…	…	…	14	1	9	5
March …	29·741	30·191	15	29·107	6	1·084	38·5	55·0	23	27·0	20	44·2	33·4	22·0	20	3·460	0·440	24	20	91·5	…	7	2	1	…	9	…	8	4
April ……	29·906	30·394	7	29·365	25	1·029	42·6	59·0	17 & 30	24·5	21	49·9	35·9	20·0	24	2·775	0·680	28	17	89·7	…	14	2	…	…	6	2	5	1
May ……	29·888	30·439	28	29·223	6	1·216	54·1	73·5	27	39·5	11	62·1	45·9	33·0	11	3·055	0·520	2	18	86·0	…	2	1	3	…	17	6	…	2
June ……	30·005	30·344	27	29·592	14	0·752	57·5	79·5	3	39·0	15	65·9	48·4	34·0	21	1·740	0·680	13	11	84·4	1	9	…	2	…	12	4	1	1
July ……	29·919	30·384	29	29·203	17	1·176	60·3	82·0	2	42·5	8	67·9	52·4	36·5	8	5·015	1·480	16	14	85·6	…	7	1	…	…	15	1	6	1
Aug. ……	29·897	30·288	2	29·237	28	1·051	57·5	76·0	3	39·0	12	64·8	50·4	38·5	12	3·870	0·900	20	15	87·4	1	7	…	…	…	18	…	4	1
Sep. ……	29·837	30·172	5	29·038	1	1·134	54·6	77·5	30	35·0	12	61·3	47·8	29·5	12	4·095	1·260	20	16	92·0	…	6	…	1	…	18	…	4	1
Oct… ……	30·015	30·454	22	29·858	9	0·596	53·5	80·5	3	34·0	28	60·7	46·7	28·0	25	1·815	0·370	19	9	94·5	…	8	2	4	…	8	…	…	9
Nov. ……	29·949	30·367	30	29·299	22	1·068	44·1	57·5	1	27·0	10	50·0	39·0	21·5	10	3·065 S. & R.	0·735	21	15	Readings not obt'inable	…	5	3	2	…	13	…	2	5
Dec. ……	29·796	30·351	1	28·813	11	1·538	38·2	50·0	21 & 24	15·0	30	43·1	33·8	13·0	30	3·595 S. & R.	0·510	9	20		…	1	…	5	1	16	…	2	6
Whole yr.	29·916	30·622	Feb. 6	28·813	Dec 11	1·809	48·1	82·0	Jul. 2	15·0	Dec 30	54·7	41·7	13·0	Dec. 30	41·265	1·480	July 16	190	…	2	71	11	18	1	158	15	43	47

These Observations are taken daily at 9 a.m. Position of Barometer, 472 feet above mean Sea level. S. & R. means both Snow and Rain.

TABLE XII.

ENTERIC FEVER.—Showing Admissions to Hospital, Deaths and Percentage of Deaths for the year 1908.

AGES.	MALES.		FEMALES.		TOTAL.		
	Admissions.	Deaths.	Admissions.	Deaths.	Admissions.	Deaths.	Death-rate per cent.
Under 5 ...	...	...	...	...	...	...	...
5—15	1	...	2	...	3	...	...
15—25 ...	5	2	2	1	7	3	43·0
25—35 ...	5	2	1	...	6	2	33·3
35—45 ...	3	...	1	1	4	1	25·0
Over 45 ...	...	...	...	...	...	...	...
TOTAL ...	14	4	6	2	20	6	30·0

TABLE XIII.

SCARLET FEVER.—Showing Admissions to Hospital, Deaths, and Percentage of Deaths, for the Year 1908.

AGES.	MALES.		FEMALES.		TOTAL.		
	Ad-missions.	Deaths.	Ad-missions.	Deaths.	Ad-missions.	Deaths.	Death-rate per cent.
Under 5 ...	16	1	17	1	33	2	6·1
5—15	37	...	44	1	81	1	1·2
15—25 ...	5	...	2	...	7	...	...
25—35 ...	1	...	1	...	2	...	...
35—45 ...	1	1	...	...	1	1	100·0
Over 45 ...	...	...	...	...	...	...	...
TOTAL ...	60	2	64	2	124	4	3·2

TABLE XIV.

SMALLPOX.—Showing Admissions to Hospital: Deaths, Percentage of Deaths, and Particulars of Vaccination for Year 1908.

AGES.	If presenting a Vaccination Cicatrix or Cicatrices.		If presenting *no* Vaccination Cicatrix.		If presenting no Vaccination Cicatrix, but showing marks of Vaccination *performed subsequently to the case having* been infected by Smallpox.		If stated to have been *unsuccessfully re-vaccinated.*		TOTAL.		
	No. Admitted.	No. Died.	No. Admitted.	No. Died.	No. Admitted.	No. Died.	No. Admitted.	No. Died.	No. Admitted.	No. Died.	Death Rate Per cent.
Under 5 yrs.	...	...	...	...	...	...	...	...	...	...	...
5—15	...	...	...	...	...	...	...	...	...	...	...
15—25.........	...	...	...	...	...	...	...	...	...	...	...
25—35.........	...	...	...	...	...	...	...	...	...	...	...
35—45.........	...	...	...	...	...	...	...	...	...	...	...
Over 45	*1	...	...	...	...	...	...	...	1	...	...
Total	1	...	...	...	...	...	...	...	1	...	...

*Admitted from Dearnley Workhouse.

TABLE XV.

Admissions to Hospital during each month of 1908.

1908.	Small Pox.				Scarlet Fever.				Enteric Fever.				Diphtheria.				Other Diseases.				Total Admissions.			
MONTH.	M.	F.	Deaths.	Total.	M.	F.	Deaths.	Total.	M.	F.	Deaths.	Total.	M.	F.	Deaths.	Total.	M.	F.	Deaths.	Total.	M.	F.	Deaths.	Total.
January ...	...	...	...	...	7	7	...	14	1	4	1	5	3	2	2	5	...	...	...	...	11	13	3	24
February ...	...	...	...	...	9	7	1	16	...	...	1	...	6	5	3	11	...	...	...	...	15	12	5	27
March ...	...	...	...	...	1	7	...	8	1	...	...	1	3	1	2	4	...	...	...	...	5	8	2	13
April	...	...	...	...	8	3	1	11	3	2	...	5	2	1	...	3	...	...	...	...	13	6	1	19
May	1	...	...	1	3	4	1	7	...	...	1	...	3	2	1	5	...	...	...	...	7	6	3	13
June	...	...	...	...	7	8	...	15	1	...	...	1	3	2	1	5	...	...	...	...	11	10	1	21
July	...	...	...	...	8	8	...	16	...	...	...	...	...	...	...	...	...	...	...	...	8	8	...	16
August ...	...	...	...	...	3	7	...	10	1	...	...	1	...	2	1	2	...	...	...	...	4	9	1	13
September ...	...	...	...	...	5	4	1	9	1	...	1	1	2	2	...	4	...	...	...	...	8	6	2	14
October ...	...	...	...	...	1	1	...	2	4	...	1	4	1	...	1	1	...	...	...	...	6	1	2	7
November ...	...	...	...	...	2	6	...	8	1	...	...	1	1	1	1	2	1	1	...	2	5	8	1	13
December ...	...	...	...	...	6	2	...	8	1	...	1	1	...	1	...	1	...	...	...	...	7	3	1	10
Total for Year	1	...	...	1	60	64	4	124	14	6	6	20	24	19	12	43	1	1	...	2	100	90	22	190

TABLE XVI.

Number of Samples taken by the Inspector, under the Food and Drugs Acts, and results of analysis.

Description.	No. Purchased.	Result.		Action taken.
		Genuine.	Adulterated.	
New Milk	78	69	9	Four Vendors prosecuted and fined. One Vendor cautioned by letter. No action taken in the remaining four cases.
Butter	19	16	3	No action taken.
Cheese	18	18	...	
Lard	3	3	...	
Pepper	4	4	...	
Baking Powder	5	5	...	
Vinegar	6	6	...	
Irish Whisky	10	9	1	Vendor cautioned by letter.
Scotch Whisky	10	8	2	One Vendor cautioned by letter. No action taken in other case.
Rum	4	4	...	
Sweet Spirits of Nitre...	4	2	2	One Vendor prosecuted and fined. The other cautioned by letter.
Camphorated Oil	4	4	...	
Liqourice Powder ...	5	5	...	
Flowers of Sulphur ...	2	2	...	
Cream of Tartar	2	2	...	
Cornflour	1	1	...	
Olive Oil...	1	1	...	
Soda Water	14	11	3	One Vendor prosecuted and fined, one cautioned by letter, no action taken in the other.
Potass Water	3	1	2	One Vendor prosecuted and fined. No action taken in the other.
Total	193	171	22	Six prosecutions. Aggregate of Fines—£6 2s. 0d. and costs.
	No.	Not Polluted	Polluted	
SAMPLES OF WATER :—				
Town's Supply	18	2	16 (Lead)	Referred to Waterworks Committee and attention of Heywood & Middleton Water Board called thereto.
Supply from Wells ...	4	1	3 (Lead & Sewage)	Owners of each supply communicated with.

In addition to the above, 2 samples of Milk were sent to the Public Health Laboratory, Manchester, for bacteriological examination. After testing by inoculation they were found not to cause tuberculosis. The amount of foreign matter in both samples was small and distinctly below the average.

TABLE XVII.

Table showing Populations at various Age Periods, since 1881, *according to the Census Returns.*

YEAR.	All Ages — Total.	Under 1 year	1–5 years	5–15 years	15–25 years	25–65 years	Over 65 years
1881	68866	1726	6728	15168	13465	29709	2070
1891	71401	1564	5678	15093	14445	32054	2567
1901	83114	1779	6634	15287	16362	40026	3026
*1908	88820	1900	7088	16333	17489	42776	3234

*Estimated Figures. In the year 1900 the Borough was extended by the addition of about 7,000 inhabitants.

Removal of Nuisances during the Year 1908.

Houses limewashed and cleansed	364	Houses
,, repaired—walls and ceilings	108	
,, ,, —floors	38	
,, ,, —roofs	35	
,, rendered dry—walls and ceilings ...	104	
,, provided with proper light and ventilation	52	
Water removed from cellars	38	
Slopstones removed to suitable positions ...	9	
Cases of overcrowding remedied	33	
Insanitary Cottages broken through	30 to 15	
Houses closed as unfit for human habitation ...	19	
Disused dwellings built up	5	
Offensive accumulations removed	151	Accumulations
Stagnant water removed	88	
Cellar areas filled in and flagged over	20	
,, ,, covered and provided with prism light	1	
Cellar areas cleansed	28	
Midden-privies converted to water closets and dry ashplaces	12	Privies and Closets
Pail closets converted to water carriage system....	13	
,, repaired or altered	85	
,, —urine guides fixed	85	
Closets cleansed and limewashed	175	
Additional Water Closets provided	8	
Water closets repaired or altered	7	
,, cleansed	14	
Waste-water closets repaired or altered	35	
,, opened and cleansed ...	28	

Ashplaces	Additional ashplaces or ashbins provided ...	5
	Ashplace floors raised and flagged...	17
	Ashplaces repaired or reconstructed	64
Urinals	Urinals repaired or reconstructed	3
	,, removed to suitable positions	2
Drains	Drains reconstructed	183
	,, connected to main sewer	12
	,, efficiently trapped	51
	,, provided with ventilating shafts	41
	,, provided with access chambers	55
	,, repaired only	149
	,, opened and cleansed	229
	,, —old, abolished	28
	,, additional provided	10
	Cellar drains repaired or reconstructed ...	15
	,, removed to areas	21
Soil, Waste, and Rainwater Pipes	Bath and lavatory waste-pipes repaired and disconnected	11
	Rain-water pipes repaired or renewed	45
	,, disconnected from drains ...	28
	Eaves-troughing repaired or renewed	53
	Kitchen waste-pipes disconnected from drains ...	63
	,, trapped, lengthened or repaired	198
Yards and Passages	Back yards paved or flagged	8
	,, repaired or repaved	14
	,, cleansed	26
	,, —sheds removed	3
	Common yards flagged, paved, or chanelled ...	25
	,, cleansed	8
	Passages repaired, reflagged, or repaved	7
Manure pits	Manure pit abolished	1
	,, pits repaired or reconstructed	5
	,, ,, cleansed, etc.	18
	Additional manure pits provided	8
Slaughter-houses	Slaughterhouse floor and drains repaired... ...	2
	,, cleansed and limewashed... ...	12

Cowsheds cleansed and limewashed	17	Cowsheds
Cowshed used for pig-keeping	1	
Premises from which fowls have been removed ...	11	Keeping of Animals
Pigs kept in an insanitary condition	2	
Bakehouses cleansed and limewashed	155	Bakehouses
Workshops cleansed and limewashed	28	Workshops
Workshop—drains properly trapped	1	
Ice cream manufactories—floor relaid and drained	3	Miscellaneous
Preparation or storage of food on insanitary premises prohibited	4	
Farms where cattle cleansed	1	
Effluvium nuisances remedied	2	

Administration of the Factory & Workshops Act, 1901.

1.—INSPECTION.

No. of Inspections of Factories	5
,, ,, Workshops and Workplaces..	681
Total ...	686

2.—DEFECTS FOUND AND REMEDIED.

Want of cleanliness		183
,, ventilation		0
,, light		0
Overcrowding		0
Other nuisances		8
Sanitary accommodation	insufficient	1
	unsuitable or defective...	4
	not separate for sexes ...	1
Giving out work to be done on unwholesome premises		0
	Total ...	257

3.—OTHER MATTERS.

Matters notified to H.M. Inspector of Factories :—

Failure to affix abstract of Factory and Workshop Act (S. 133)		0
Action taken in matters referred by H. M. Inspectors as remediable under the Public Health Acts, but not under the Factory Act	Notified by H.M. Inspectors	5
	Reports of action taken sent to H.M. Inspectors	1
	No action taken	0
	In hand at end of year ...	4

Underground Bakehouses (S. 101).

Certificates granted during the year	0
In use at end of year	9

4.—HOME WORK.

Outworker's Lists (S. 107).

NATURE OF WORK.	Lists received from Employers.				No. of Addresses of Outworkers.		No. of Inspections of Outworkers' Premises.
	Twice per year.		Once per year.		received from other Councils	forward'd to other Councils	
	Lists	Out-workers	Lists.	Out-workers			
Making, etc. of Wearing Apparel.	2	7	1	1	—	3	5

Summary of Visits, Inspections, &c.

Inspections of	Slaughterhouses	3,683
,,	Cowsheds	349
,,	Workshops	173
,,	Bakehouses	508
,,	Canal Boats	47
,,	Caravans	37
,,	Houses let in Lodgings	144
,,	Markets	Regularly
,,	Ice Cream Manufactories	141
,,	Milk Shops	240
,,	Chip Potatoe and Fish Shops	419
,,	Offensive Trades	228
,,	Waste Water Closets	138
,,	Common Yards, Courts, Passages, &c.	6,469
,,	Work in Progress	1,893
,,	—To ascertain if Work in Progress	3,649
,,	—*re* Complaints received	295
Number of	Dwelling-house Rooms fumigated after Death from Pulmonary Consumption	210
,,	Dwelling-house Rooms fumigated after other Infectious Diseases	289
,,	Schoolrooms fumigated after Infectious Diseases	23

Summary of Visits and Inspections—*Continued.*

Number of Articles of Bedding disinfected after Infectious Diseases	2,660
,, Visits to cases of Infectious Disease	457
,, Applications for Lime and Brushes	2,089
,, Dwelling-houses in house-to-house Inspection	96
,, Drains tested	244
,, Drains tested and found defective	191
,, Owners seen personally *re* Nuisances	779
,, Occupiers seen personally *re* Nuisances	1,208
,, Preliminary Notices sent out for Abatement of Nuisances	621
,, Legal Notices served	104
,, Smoke Observations taken	235
,, Notices served *re* Smoke	22
,, Prosecutions *re* Smoke Nuisance	4
,, Food and Drug Samples purchased	193
,, Letters sent *re* Adulterated Samples	5
,, Prosecutions for Adulterated Samples	6
,, Prosecutions for refusing to sell Milk to Inspector	1
,, Samples of Water obtained	22
,, ,, found Polluted	19
,, Complaints *re* Nuisances, etc., received from persons outside staff	189
,, Dwellings closed as Unfit for Human Habitation	19

Legal Proceedings instituted during Year 1908.

No.	Date of Hearing.	Offence.	Result.
1	13th May	Selling Milk adulterated with 6 per cent. additional water...	Convicted, and fined 10/6 and costs.
2	,,	Selling Milk adulterated with 10 per cent. additional water (second offence)	Convicted, and fined £2 and costs.
3	17th June	Selling Milk 11 per cent. deficient of its fat	Convicted, and fined £2 and costs.
4	,,	Refusing to sell sample of Milk to Inspector........................	Convicted, and fined £1 1s. and costs.
5	2nd Sept.	Selling Soda Water containing no bi-carbonate of Soda	Convicted, and fined 10/6 and costs.
6	,,	Selling Potass Water containing no bi-carbonate of Potass.	Ditto.
7	23rd Sept.	Emitting Black Smoke for 7½ minutes in half hour (5 boilers)	Convicted. Order made for abatement within six weeks, and pay costs.
8	4th Nov.	Emitting Black Smoke for 14 minutes in half hour (6 boilers)	Convicted. Order made for abatement within four weeks, and pay costs.
9	18th Nov.	Emitting Black Smoke for 4 minutes in half hour (1 boiler)	Convicted. Order made for abatement within six weeks, and pay costs.
10	30th Dec.	Selling Milk 18 per cent. deficient of its fat	Convicted, and fined 10/6 and costs.
11	20th Jan. 1909	Selling Sweet Spirit of Nitre deficient 26 per cent. ethyl nitrite	Convicted, and fined 2/6 and costs.
12	27th Jan., 1909	Emitting Black Smoke for 6 minutes in half hour (2 boilers)	Convicted. Order made for abatement within six weeks, and pay costs.

Lady Inspectors' Work.

YEAR 1908.

Total Number of Visits paid	6,255
Number of Visits for the purpose of advice as to the rearing and feeding of children	2,322
Number of Houses visited where Infants under 1 year of age have died	365
Number of Visits to houses where death occurred from Phthisis	120
Number of Visits to houses where death occurred from Cancer	40
Number of Visits to houses where persons were suffering from Cancer	3
Number of Houses visited where persons were suffering from Phthisis	24
Number of Visits to houses where death has occurred from other Tubercular diseases	12
Number of Houses visited where persons (over 1 year of age) have died from Diarrhœa	26
Number of House-to-House Visits	239
Number of Visits under the Midwives Act	180
Number of Visits *re* Puerperal Fever	5
Number of Visits *re* Complaints received	66
Number of Revisits for the purpose of ascertaining the carrying out of suggestions	2,863
Total Number of Nuisances reported	151
Dirty Houses	98
Damp Houses	15
Overcrowded Houses	24
Defective or Insufficient ventilation	5
Other Defects (Plastering, &c.)	9